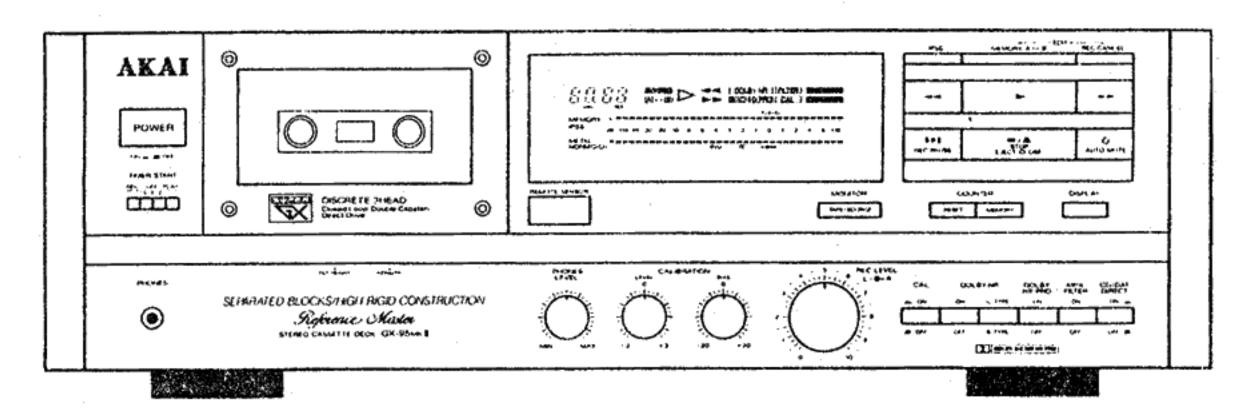
## AKAI SERVICE MANUAL



MODEL GX-95MKII

#### STEREO CASSETTE DECK

MODEL GX-75MKII GX-95MKII

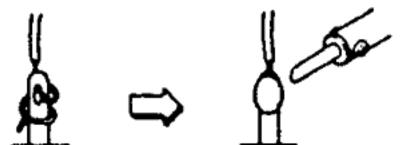
#### **SPECIFICATIONS**

| Track System<br>Heads |  | T, H, D   | 70mV/47kΩ                             |
|-----------------------|--|---|---------------------------------------|
| Motors                | x1<br>FG Servo D.D. motor for capstan<br>drive x1<br>DC motor for reel drive x1  | Output Level/Impedance Line   |                                       |
| Wow & Flutter         | DC motor for cam drive & tape eject/loading x1   | Dimensions  | 240V, 50Hz for UK (GX-95M KII ONLY)   |
|                       | 85 sec. (C-60)<br>15Hz to 19,000Hz ± 3dB   | Weight  | GX-75MKII :<br>425(W)×154(H)×350(D)mm |
| Metal                 | 15Hz to 20,000Hz ± 3dB<br>15Hz to 22,000Hz ± 3dB<br>59dB (Measured via Metal tape<br>with peak recording level)  |   | GA-75WKII .9.0Kg                      |
|                       | Dolby B type NR switch ON:<br>Improves up to 5dB at 1kHz, 10dB<br>above 5kHz<br>Dolby C type NR switch ON:<br>Improves up to 15dB at 500Hz,<br>20dB at 1kHz to 10kHz | Standard accessories Connection cords Remote control unit Dry batteries | ×1                                    |

- \* For improvement purposes, specifications and design are subject to change without notice.
- \* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
- \* "DOLBY", the double-D symbol IXI and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

#### PRECAUTIONS DURING SERVICING

- Parts indentified by the (\*) symbol are critical for safety. Replace only with parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
  - These must also be replaced only with specified replacements.
  - Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
- 3. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
  - 2) PVC tubing
  - Spacers (Insulating barriers)
  - 4) Insulation sheets for transistors
  - Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

#### SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metalparts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

#### \*INFORMATION

#### SYMBOLS FOR PRIMARY DESTINATION

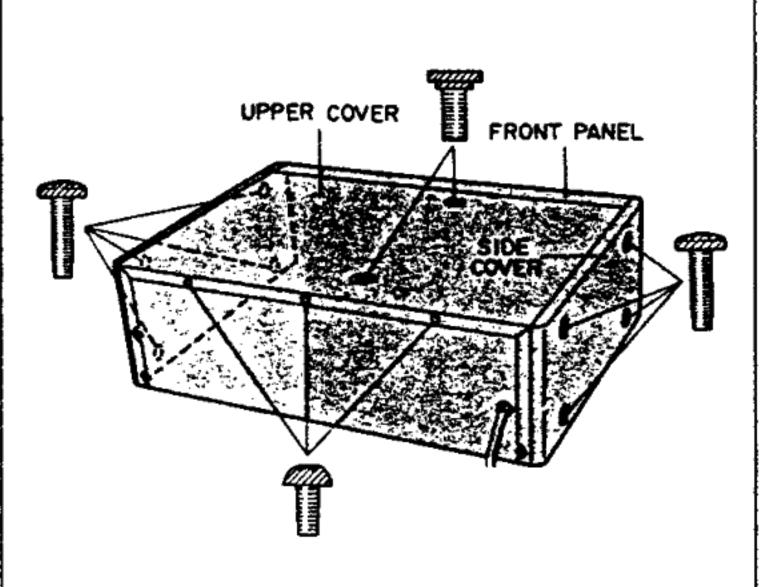
Primary destinations of units are indicated with the following alphabetic

| Symbols | Primary Destinations          |
|---------|-------------------------------|
| A       | USA                           |
| В       | UK                            |
| C       | Canada                        |
| E       | Europe(exceptUK)              |
| J       | Japan                         |
| S       | Australia                     |
|         | W.Germany only                |
| Y       | Universal Area Custom version |

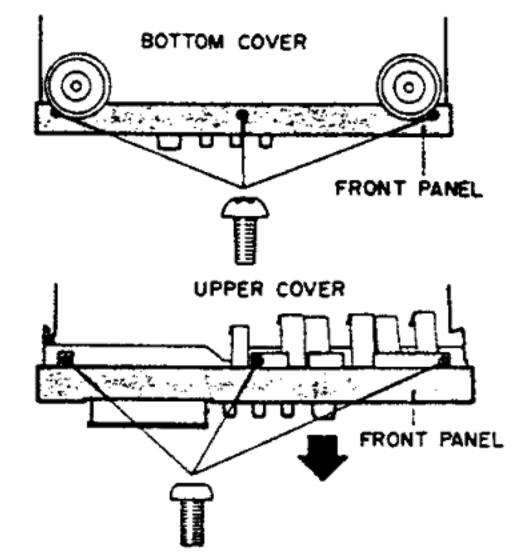
#### I. DISASSEMBLY

In case of trouble, etc, necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

#### 1. Removal of UPPER COVER

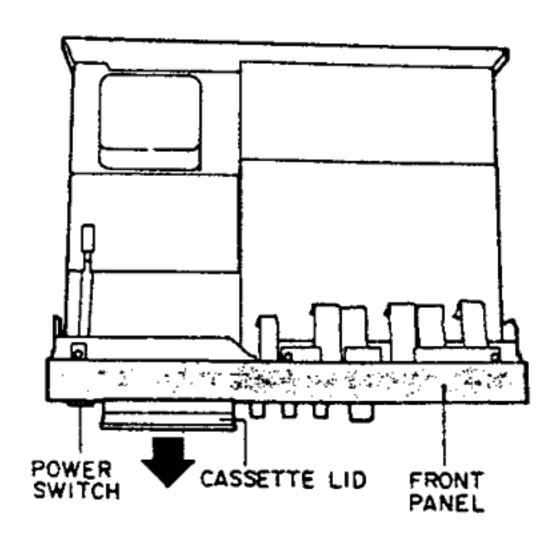


#### 3. Removal of front panel



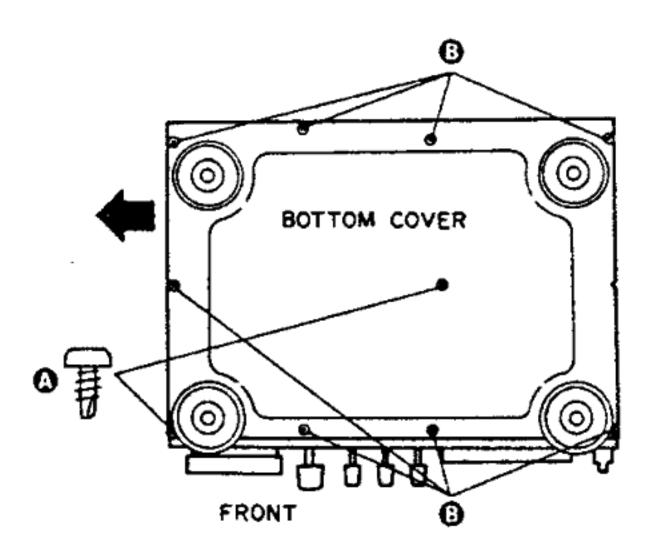
- 1) Remove the front panel's 3 bottom retaining screws.
- 2) Remove the front panel's 3 upper retaining screws.
- Pull the front panel forward in the direction of the arrow ( I).

#### 2. Removal of cassette lid



- Turn the power ON and press the STOP/EJECT button to open the cassette lid.
- 2) Remove the cassette lid by pulling it in the direction of the arrow ( 1 )

#### 4. Removal of bottom cover



- 1) Remove the bottom cover's @ retaining screw.
- 2) Loosen the 3 screw.
- Slide the bottom cover in the direction of the arrow (←) to remove it.

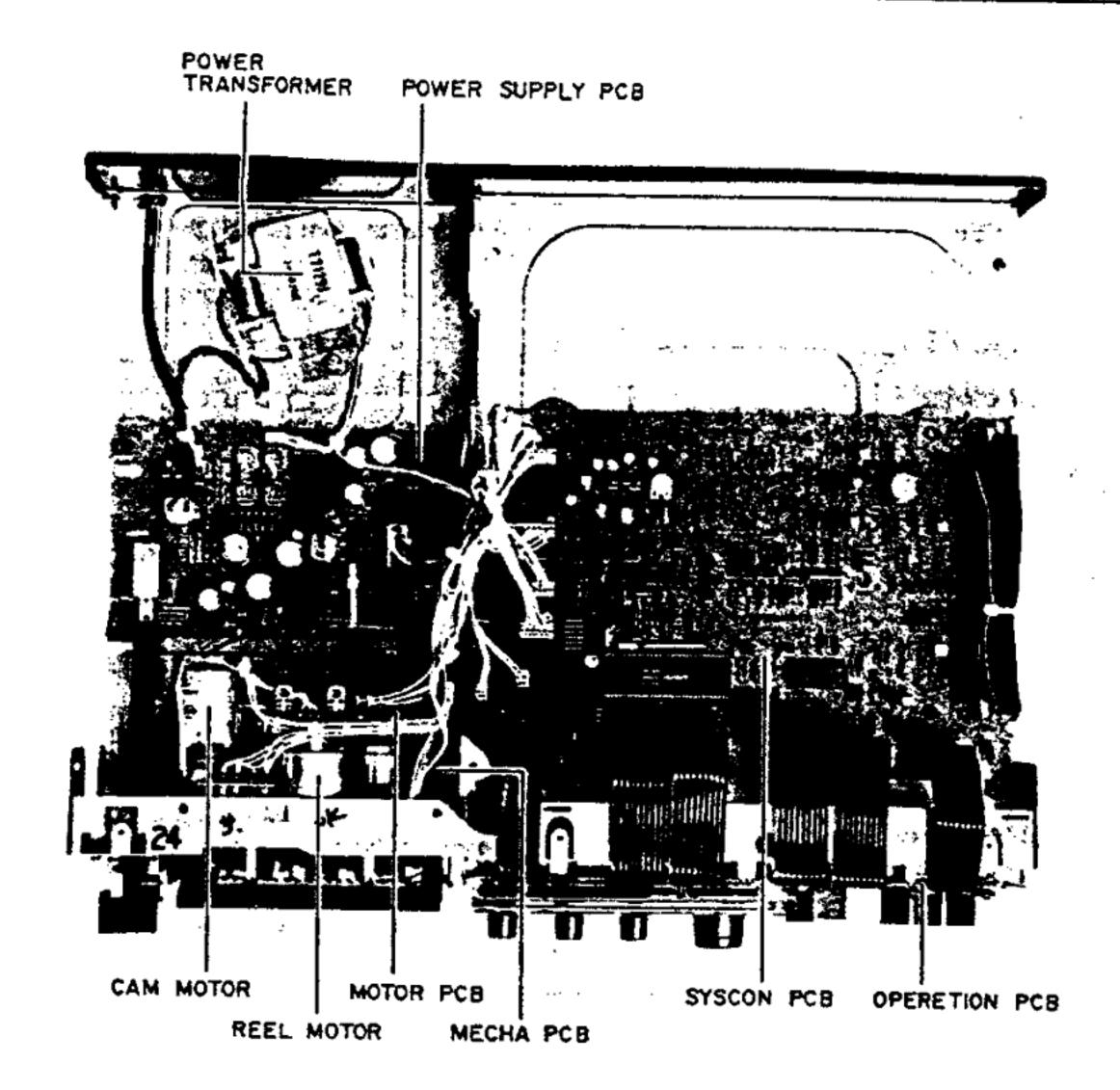


Fig. 2-1 View from upper side

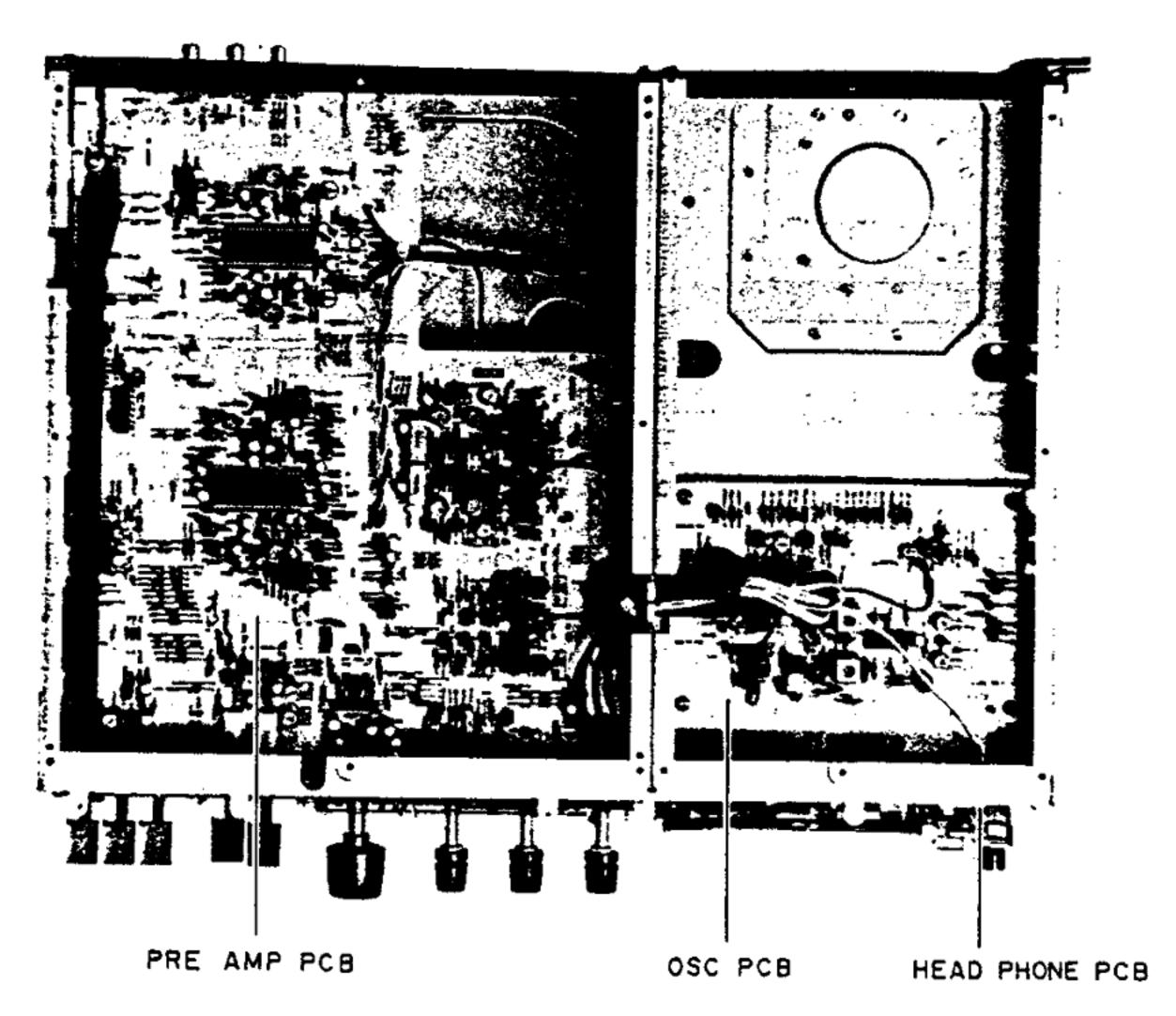


Fig. 2-2 View from bottom side

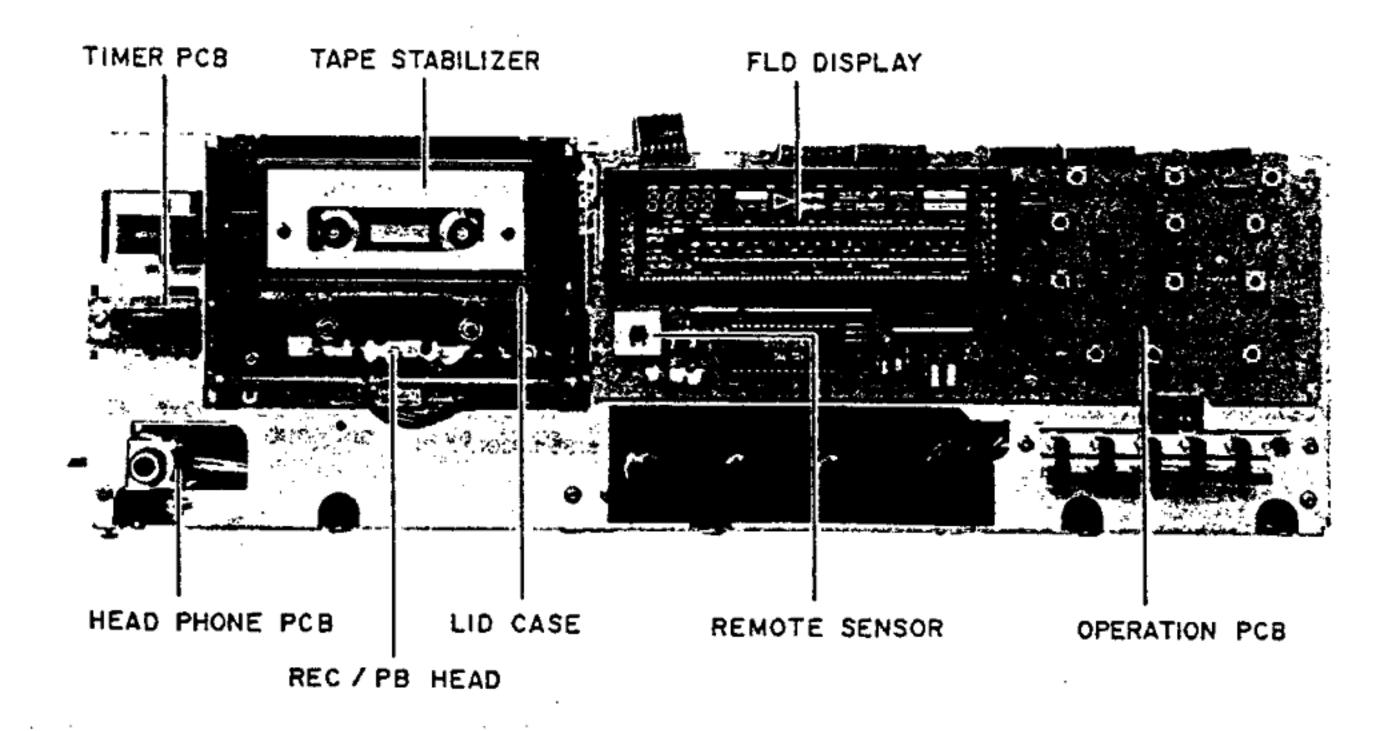


Fig. 2-3 View from front side

#### III. DISASSEMBLY AND REASSEMBLY OF THE MECHANISM BLOCK

## 3-1. REMOVING THE LID CASE AND LID DECORATION

- Turn the power on and press the STOP/EJECT button. Remove the lid panel when the lid is in the eject position. Press the STOP/EJECT button a second time to close the lid. Turn the power off.
- 2) While pulling the ② section of the LID ARM outward, press inward on the ③ section of the LID CASE to disengage the LID CASE from the collar and LID ARM (Refer to Fig. 3-1, 3-2)
- Disengage the LID CASE from the MECHA BLOCK by pulling in the direction of the arrow.
- 4) Proceed in the reverse order for reassembling.

- 5) Next, while pressing up slightly on the decoration stopper on the upper right and left sides, move the lid decoration forward and down, disengaging it from the holders and guide shafts on the bottom left and right (Refer to Fig. 3-3.)
- To reassemble, perform the above steps in the reverse order.

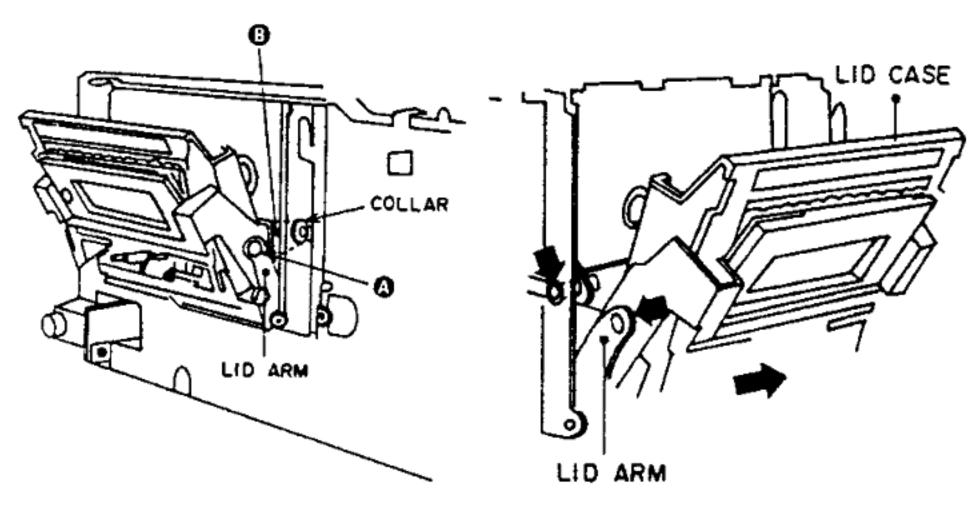


Fig. 3-1 Fig. 3-2



Fig. 3-3

#### 3-2. REMOVING THE MECHANISM BLOCK

- Remove connector P101 from the PRE AMP PCB and the P751 and P781 from the OSC PCB. Next, remove mechanism block securing screws (3 (Refer to Fig. 3-4.)
- Remove the six connectors P1-P6 from the SYSCON PCB. Remove mechanism block securing screws (Refer to Fig. 3-5.)
- 3) Finally, lift the mechanism block upward to remove it.
- To reassemble, perform the above steps in the reverse order.

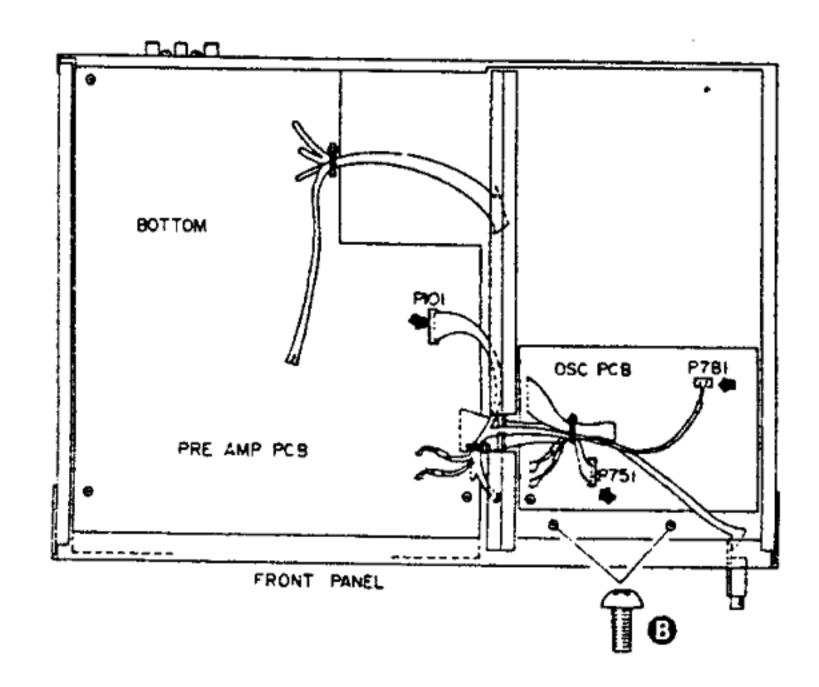


Fig. 3-4

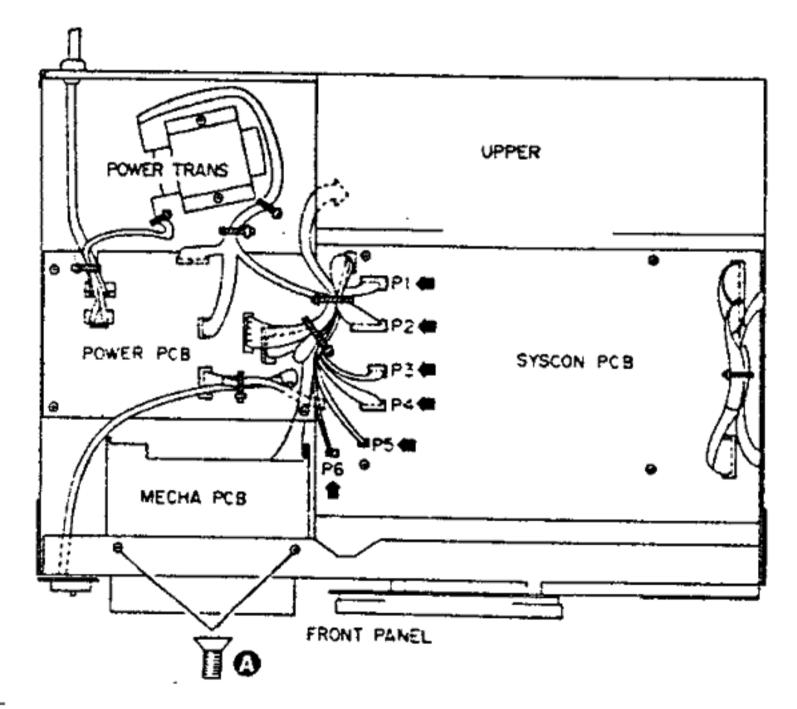


Fig. 3-5

#### 3-3. REMOVING THE MOTOR BLOCK

- First remove the lid case and lid decoration, then take the mechanism block out of the main unit.
- Remove the MOTOR BLOCK securing screw from the left side panel of the mechanism block. (Refer to Fig. 3-6.)
- Remove motor block securing screws 

   and from the mechanism block's front side. Remove the motor block from the mechanism block (Refer to Fig. 3-7.)
- To reassemble, perform the above steps in the reverse order.

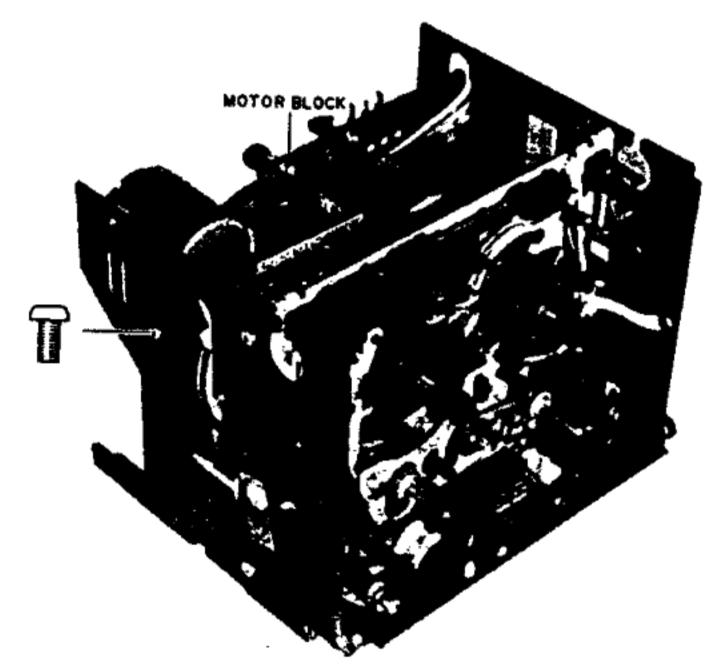


Fig. 3-6

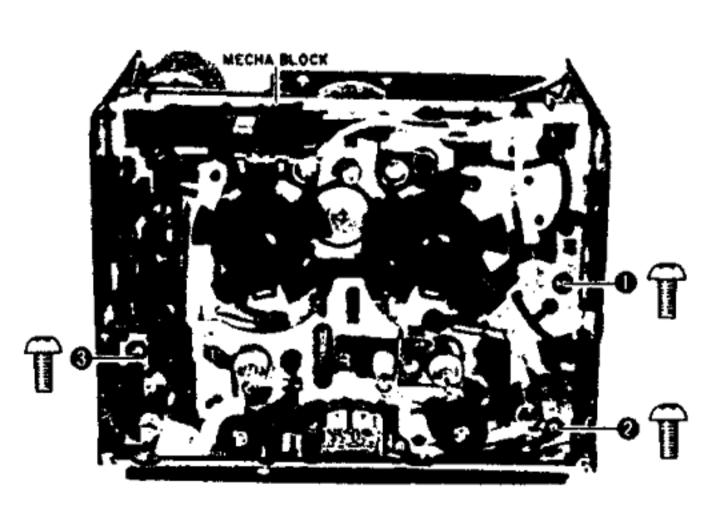


Fig. 3-7

#### 3-4. REMOVING THE CAM MOTOR AND CAM BELT

- Remove the motor block from the mechanism block.
   (See section 3-3, "Removing the motor block.")
- 2) Disconnect the two cam motor lead wires.
- Remove cam motor base screws 
   and 
   from the motor block. (Refer to Fig. 3-8.)
- 4) Remove the cam belt and operation pulley from the cam motor block which has just been removed.
- 5) Remove cam motor securing screws @ and @. (Refer to Fig. 3-9.)
- To reassemble, perform the above steps in the reverse order.

#### 3-5. REPLACING THE HALL ELEMENT

- Remove the motor block from the mechanism block.
   (See section 3-4, "Removing the motor block.")
- 2) Remove motor PCB block securing screws ①, ② and ③ and take out the motor PCB block. (Refer to Fig. 3-10.)
- Remove the solder from the Hall element. Remove the Hall element from the motor circuit board.
- 4) When attaching a replacement, connect the protruding portion of the Hall element to the circuit board. (Refer to Fig. 3-11.)
- To reassemble, perform the above steps in the reverse order.

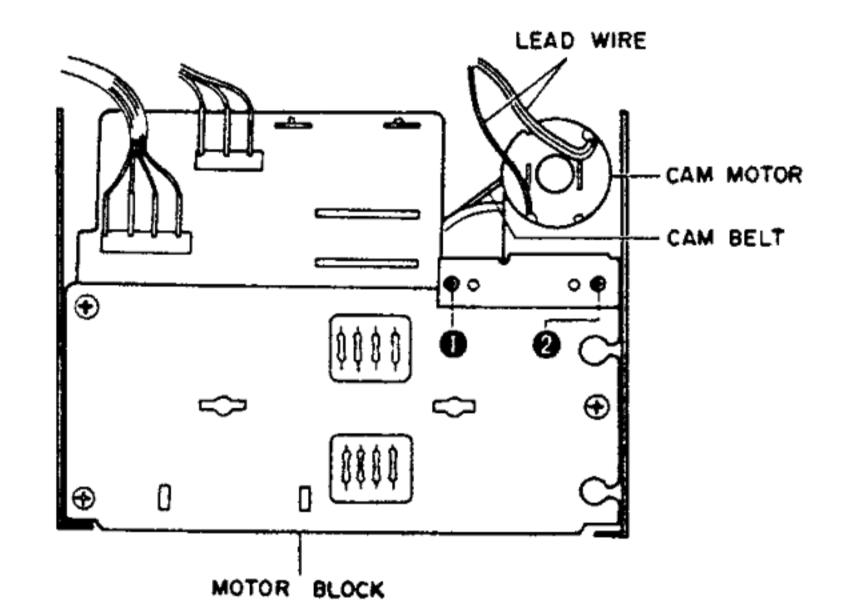


Fig. 3-8

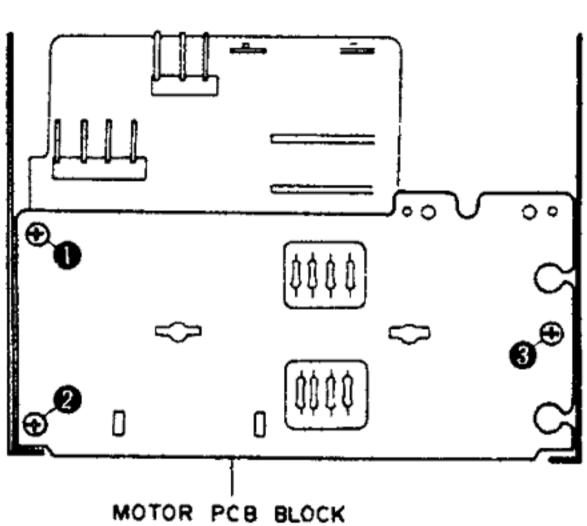


Fig. 3-10

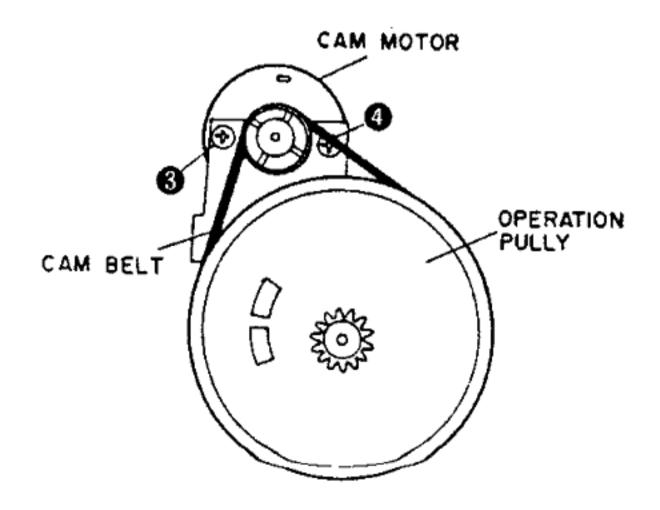


Fig. 3-9

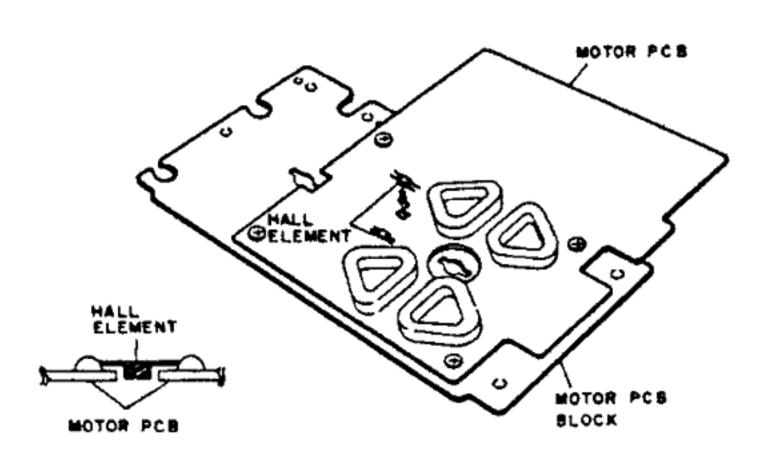


Fig. 3-11

#### 3-6. REMOVING THE CAM WHEEL AND POSITION POTENTIAL VOLUME

- Remove the motor block from the mechanism block. (See section 3-3, "Removing the motor block.") Also remove the motor PCB, the capstan belt and the flywheel.
- Remove the stopper ring from the capstan holder. Pull off the cam wheel. (Refer to Fig. 3-12.)

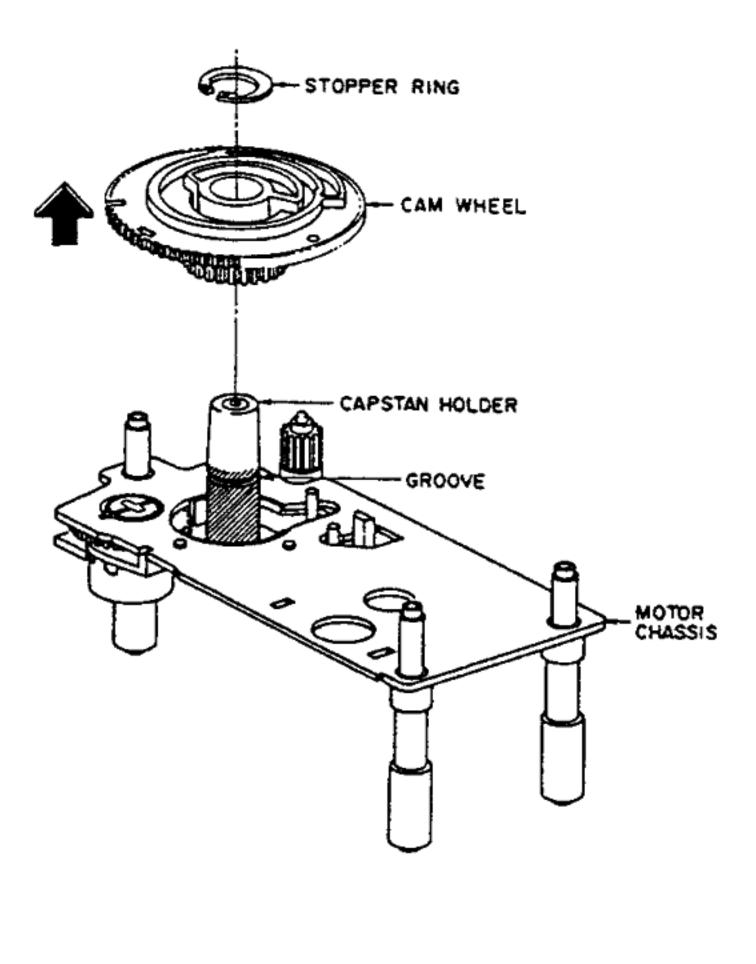
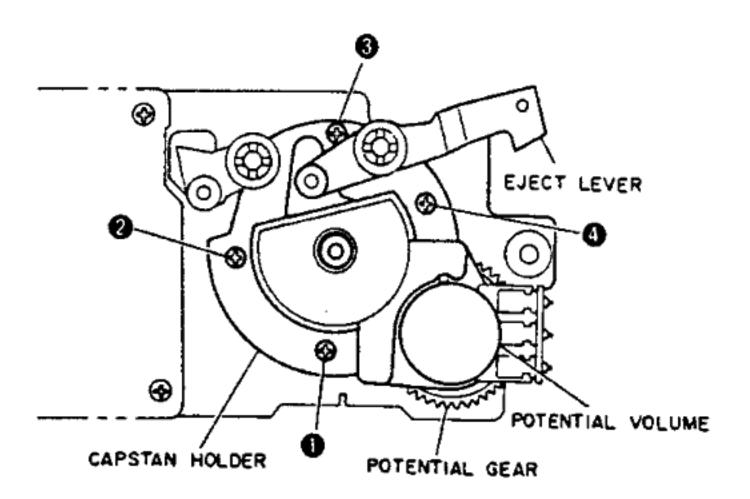
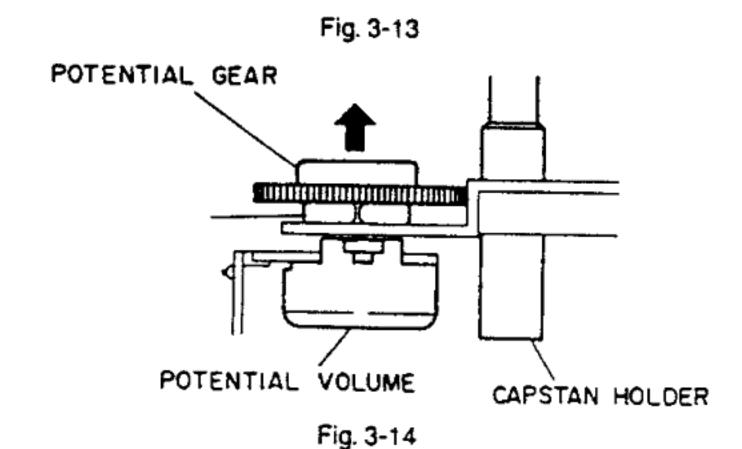


Fig. 3-12

- 3) Remove capstan holder securing screws **0**, **2**, **3** and **9**. Remove the capstan holder (Refer to Fig. 3-13.)
- 4) Remove the potentio gear. Unscrew the position potential volume securing nut. (Refer to Fig. 3-14.)
- To reassemble, follow the directions in section 3-7, "Reassembling the cam wheel and position potential volume," below.





#### 3-7. REASSEMBLING THE CAM WHEEL AND POSITION POTENTIAL VOLUME

- 1) Attach the position potential volume to the capstan holder and attach the potention gear. Attach the capstan holder to the motor block and tighten the securing screws. Align the mark on the potention gear with the groove in the motor chassis as shown in Fig. 3-15.
- 2) Slide the cam wheel onto the capstan holder and position it so that the eject lever fits into the slot in the cam wheel and the center of the mark on the cam wheel aligns with the center of the chassis groove.

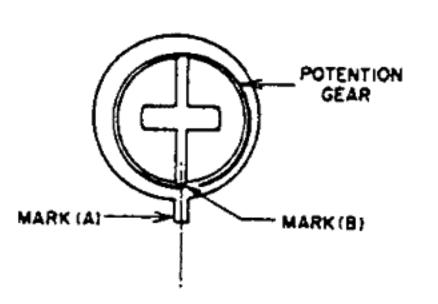


Fig. 3-15

- Take care not to scratch the gear. When replacing with a new part, apply molybdenum grease to the portion of the capstan holder indicated by the slanted lines and the cam portion of the cam wheel before assembling.
- After confirming that the positions of the marks on the potention gear and cam wheel are aligned with the groove in the motor chassis, attach the stopper ring.

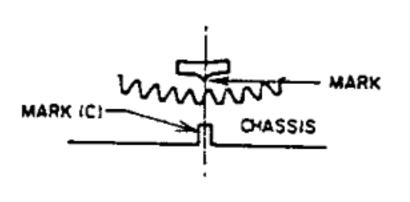


Fig. 3-16

### 4-1. POTENTIAL VOLUME PRESET VOLTAGE ADJUSTMENT (Refer to Fig. 4-1, 4-2)

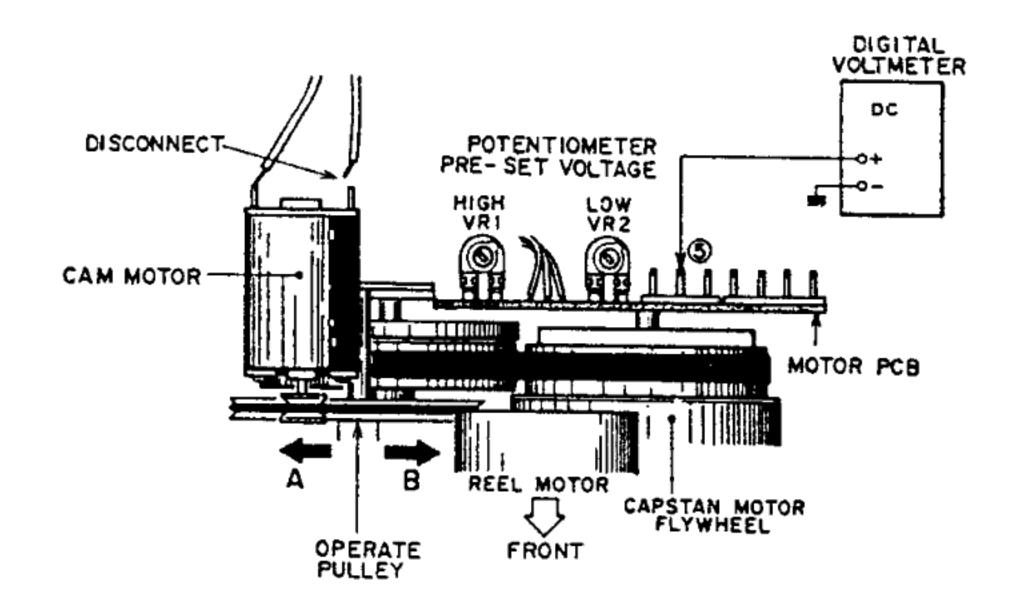


Fig. 4-1

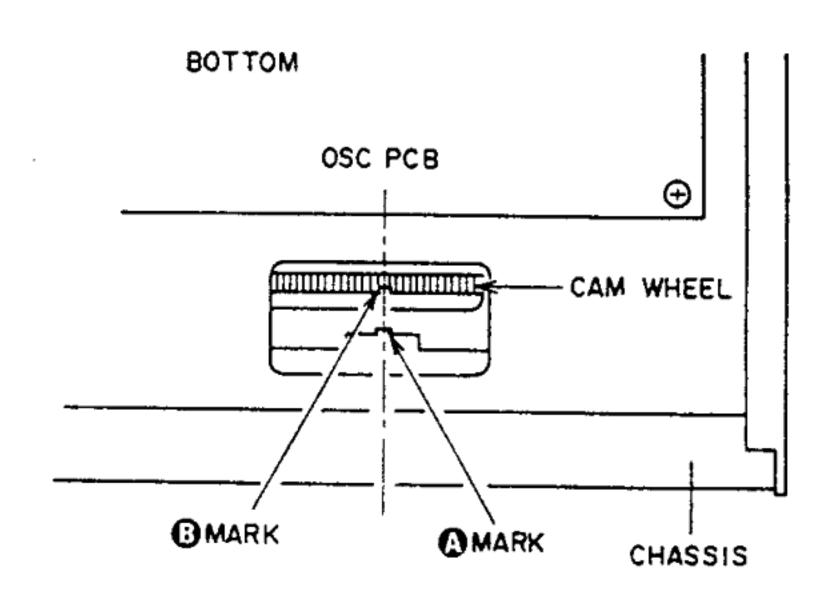


Fig. 4-2

#### 1) LOW VOLTAGE ADJUSTMENT

- a. With power OFF, remove the connecting cord of the CAM MOTOR and turn the OPERATE PULLEY fully with your fingers in the A direction. (EJECT DIRECTION)
- b. Connect the digital voltmeter as shown in Fig. 4-1.
- c. With power ON, adjust VR2 so that the voltage reading on the Digital DC Voltmeter is 1.13V.
- 2) HIGH VOLTAGE ADJUSTMENT
  - a. With power OFF, turn the OPERATE PULLEY fully with your fingers in B direction. (PLAY DIRECTION)
  - b. With power ON, adjust VR1 so that the voltage reading on the Digital DC Voltmeter is 9.08V.
- 3) Repeat step 1) and 2).
- With power OFF, connect the connecting cord of the CAM MOTOR.

- Remove the Cassette lid, Front panel and Bottom cover.
  - (Refer to I. DISASSEMBLY)
- 6) a. Turn the power ON
  - b. Adjust VR1 slightly so that the center of marker ③ in the STOP coincides with the center of marker ⑤ in the STOP mode as shown on Fig. 4-2. (The marker ⑥ on the CAM WHEEL can be seen clearly by lighting it from the back.)
  - c. Set the IPLS switch to ON.
  - d. Turn the reel with fingers in STOP mode to check that the brake works sufficiently. When the brake acts normally, the take -up reel does not turn clockwise and the supply reel does not rotate counter clock wise.

#### 4-2. PINCH ROLLER PRESSURE MEASUREMENT (Refer to Fig. 4-3)

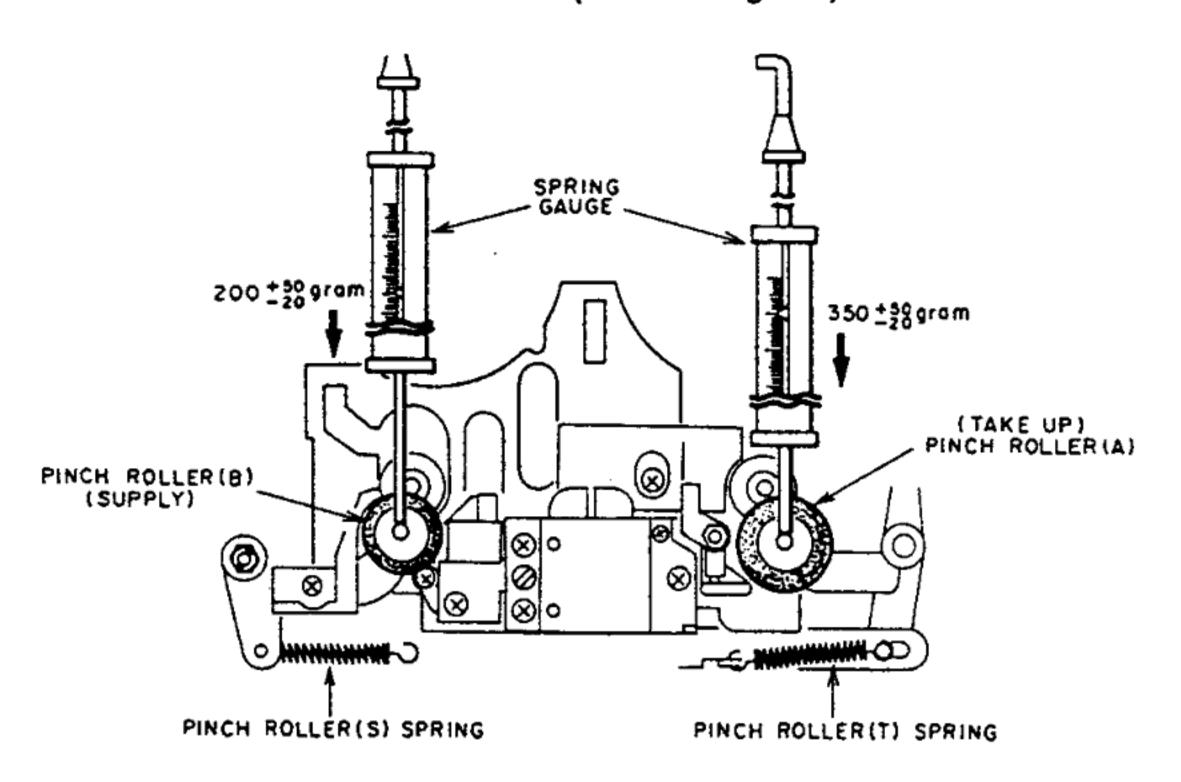


Fig. 4-3

Engage the PLAY mode. Push the pinch roller shaft down with the spring gauge, and push the pinch roller 1 to 2mm away from the capstan and release slowly. Read the spring gauge at the moment the pinch roller touches the capstan and begins to rotate.

## Specified pressure: 350 150 gram (Take up) 200 150 gram (Supply)

If there is no measurement obtained, replace the pinch roller spring.

Note: Remove the cassette lid and cassette holder first.

(Refer to Assembly and disassembly of the mechanism)

## 4-3. WINDING TORQUE MEASUREMENT IN EACH MODE (Refer to Fig. 4-4)

insert a cassette torque meter (AJ-751179) and measure in each mode. For Fast Forward and Rewind, measure at the end of the tape when the tape has stopped running.

#### PLAY mode

Take up Torque : 40<sup>20</sup> g-cm Back tension torque : 10<sup>10</sup> g-cm

#### FAST FORWARD, REWIND mode

Take up Torque : 120 130 g-cm

#### CASSETTE TORQUE METER (AJ-751179)

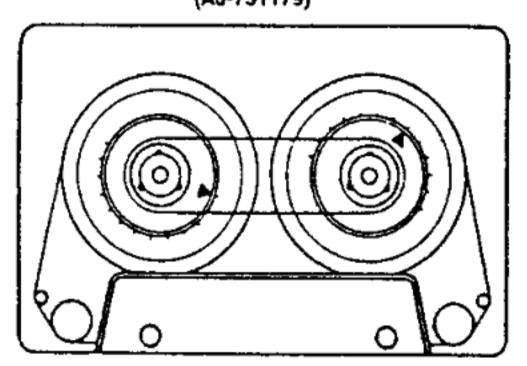


Fig. 4-4

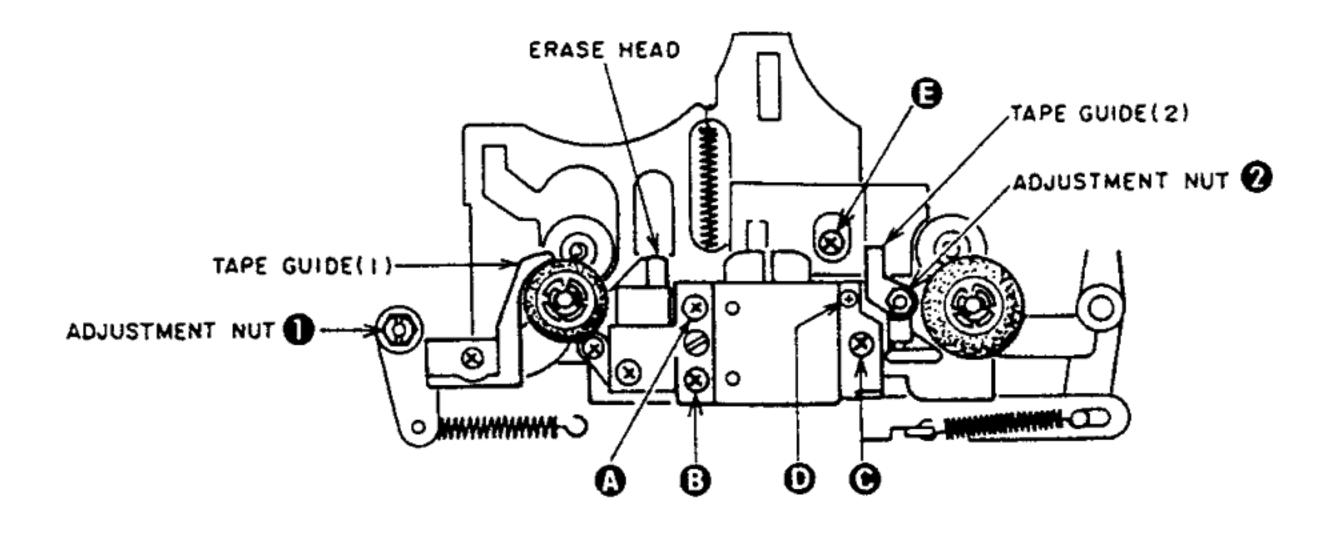


Fig. 5-1

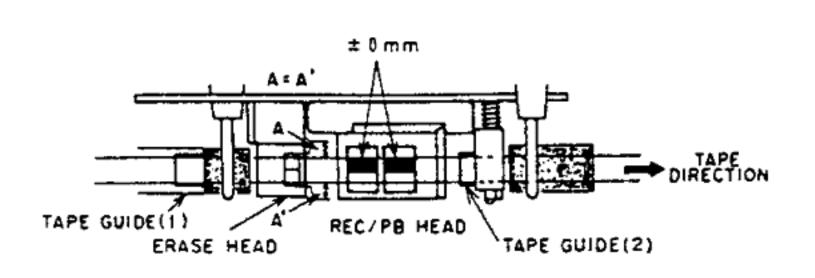


Fig. 5-2

#### 5-1. TAPE GUIDE HEIGHT ADJUSTMENT

- Load the mirror cassette tape (AJ-751178) and engage the PLAY mode.
- Adjust the tape guide (2) so that the tape runs smoothly and is not hitched by the tape guide. For adjustment, use the adjustment nut ②.
- 3) After adjustment, paint-lock the adjustment nut 2.

#### Caution:

The tape guide adjustment nut **0** is important as it fixes the position of the tape guide (1).

This nut should not be moved as it has been pre-adjusted at the factory.

#### 5-2. REC/PB HEAD HEIGHT ADJUSTMENT

- Load the mirror cassette tape and engage the PLAY mode.
- Turn the O, O and O screws alternately so that the upper edge of the REC/PB head core and the tape edge is in alignment.

NOTE: Always turn the three screws in the same direction and to the same degree. If they are not turned in the same manner, re-adjustment of head azimuth or tape transportation may be necessary.

3) Play back the head height adjustment tape (4 Track 1,000Hz) (AT-750775),and fine-adjust screws 3, 3 and 3 so that the largest output is obtained for both channels.

Cassette Head Projection Gauge.

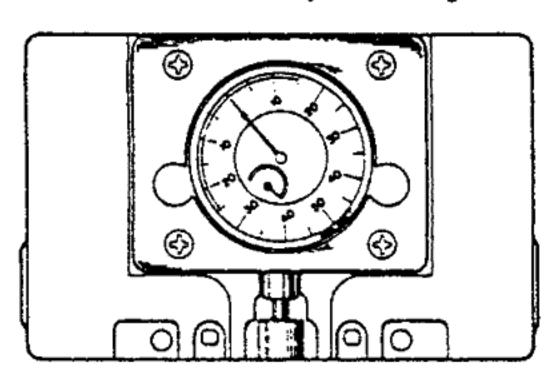


Fig. 5-3

## 5-3. REC/PB HEAD AZIMUTH ALIGNMENT ADJUSTMENT

 Play back a 10kHz (-15dB), Head Azimuth Adjustment Tape (AT-750778) and adjust the @ adjustment screw until the output level from both LINE OUT channels is maximum.

At the same time make sure that output phase is equal for both channels.

- 2) While recording a 12kHz (-26dBs) signal from an audio signal generator, monitor it and adjust the recording head azimuth adjustment screw ① so that the play back level is maximum. At the same time make sure that output phase is equal for both channels.
- 3) After adjustment, paint-lock the adjustment screw.

NOTES:1. Be sure to clean the heads prior to head adjustment.

- Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
- Be sure to demagnetize the heads with a Head Demagnetizer before and after head adjustment.

## 5-4. TAPE TRANSPORTATION SYSTEM ADJUSTMENT (Refer to Fig. 5-1, 5-2)

If there is level fluctuation or poor frequency response caused by faulty tape transportation use the following procedure to adjust the tape transportation system.

- Load the mirror cassette tape (AJ-751178) and engage the PLAY mode.
- 2) Check to make sure that the tape is running smoothly and that it does not curl or wrinkle at the tape guide. If the tape is not running smoothly, make adjustment using the tape guide height adjustment screw (2).
- 3) Play back a 10KHz (-15dB) Head Azimuth Adjustment tape (AT-750778) and adjust the @ adjustment screw so that the output from both the Right and Left LINE OUT channels is at the maximum level. At the same time make sure that output phase is equal for both channels.
- 4) After adjustment, paint-lock the adjustment screws.
- 5) After finishing the above adjustment refer to the "VI Electrical adjustment" section and perform electrical adjustment to the playback and recording circuits.

#### Caution:

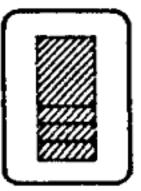
The tape guide (1) screw is an important adjustment screw that fixes the position of tape transport.

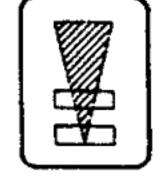
This screw should not be moved as it has been pre-adjusted at the factory.

## 5-5. ADJUSTMENT WHEN REC/PB HEAD IS REPLACED (Refer to Fig. 5-1, 5-2, 5-3)

Before proceeding with the following adjustment, the lid decoration must be removed. (Refer to section 3-1, "RE-MOVING THE LID CASE AND LID DECORATION".)

- Attach the REC/PB head to the head mount with the
   and screws.
  - Turn each screw the same amount of times (4 or 5 times) so that the screws are tightened temporarily.
- Load the mirror cassette tape (AJ-751178) and engage the play mode.
- Turn the O. O and O screws alternately so that the upper edge of the REC/PB head core and the tape edge is in alignment.
- NOTE: Always turn the three screws in the same direction and to the same degree. If they are not turned in the same manner, re-adjustment of head azimuth or tape transportation may be necessary.
- 4) Perform the following procedure to adjust the angle of the REC/PB head against the tape surface.
  - a. Using your finger, lightly rub the top of the REC/PB head (where it makes contact with the tape) until it is cloudy.
  - b. Play back the tape for a few seconds.
  - c. Eject the cassette tape and check the shape of the mark made by the tape.







CORRECT

INCORRECT Fig. 5-4

INCORRECT

- A long rectangular mark indicates good tape transportation.
- If the tape leaves an inverted triangular mark, adjust the angle of the head by turning the ② screw in the counterclockwise direction. Repeat the adjustment until a long rectangular mark is left by the tape.
- If the tape leaves a triangular mark, adjust the angle of the head by turning the ③ screw in the clockwise direction. Repeat the adjustment until a long rectangular mark is left by the tape.
- 5) Insert the cassette head projection gauge (AJ-751180) and engage the PLAY mode. Loosen the **3** screw and adjust the position of the REC/PB head so that it is 3.2 ± 0.1 mm from the tape. Tighten the **3** screw and measure the position.

Repeat the adjustment until the correct measurement is obtained.

- Play back a 1000Hz (0dB) 4 track head height adjustment tape (AT-750775).
  - Adjust the ② screw so that the output from both the Left and Right LINE OUT channels is at the maximum level. After adjusting the ② screw, make the exact same adjustments to the ③ and ④ screws.

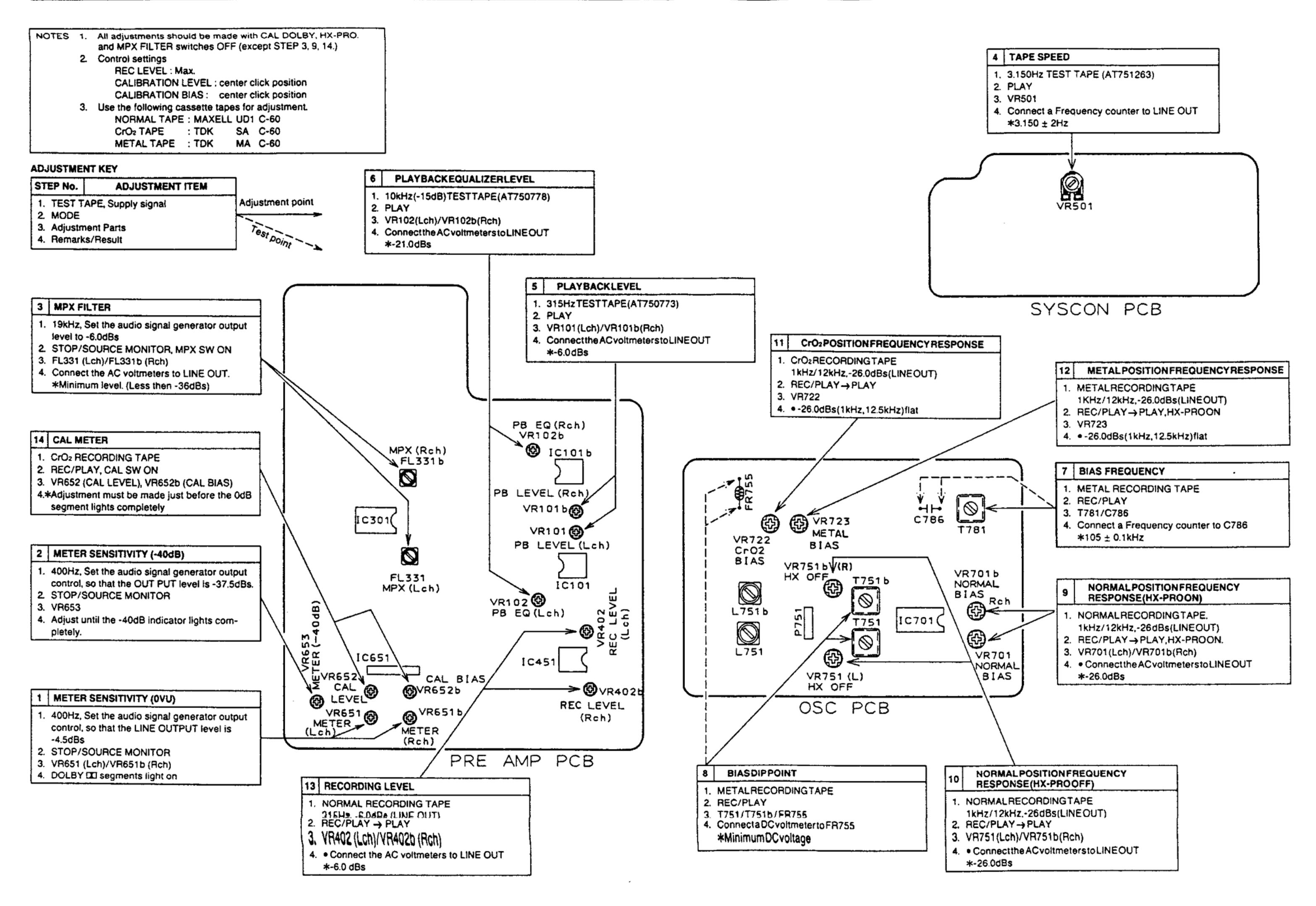
NOTE: always turn the screws in the same direction and to the same degree. If they are not turned in the same manner, re-adjustment of head azimuth or tape transportation may be necessary.

- 7) Play back a 10kHz (-15dB) Head Azimuth Adjustment tape (AT-750778) and ad-just the **9** adjustment screw so that the output from both the Left and Right LINE OUT channels is at the maximum level.
  - At the same time make sure that output phase is equal for both channels.
- 8) Repeat adjustments 6) and 7) a few times and set at the best point.
- 9) Once adjustments 1) to 8) have been made, refer to the "VI electrical adjustment" section and perform electrical adjustment to the playback and recording circuits.

When adjusting the recording circuit's normal position frequency response, record a 12kHz (-26dB) signal from an audio signal generator. While recording the signal, monitor it and adjust the recording head azimuth with the ① screw so that the playback level is maximum. At the same time make sure that the Left and Right levels are the same.

#### Caution:

All adjustment screws other than screws (a) to (3) have been pre-adjusted and should not be moved.



PARTS LIST

#### ATTENTION

- 1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

#### HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.

a) Mechanism Block

#### b) PC Board

#### 2. HEAD BASE BLOCK

| Ref.No.  | Part No.      | Description              |
|----------|---------------|--------------------------|
| 1        | BH-T2023A320A | HEAD BASE BLOCK          |
| 2        | HP-H2206A010A | HEAD R/P PR4-8FU C       |
| 3        | ZS-477876     | PAN20×03STL CMT          |
| 4        | ZS-536488     | BID20×08STL CMT          |
| 5        | ZG-402895     | SP CS ANGLE ADJUST       |
| <b>A</b> | \$P (S        | Service Parts) Classific |

cation

This number corresponds with the individ ual parts index number in that figure.

#### 6. MAIN PC BOARD

| Ref.No. | Part No.  | Description  |
|---------|---|--|
|         | EI-324536<br>EI-336801<br>EC-338399<br>EC-350949<br>EC-338397<br>EI-318384              | IC HD14049BP IC MB8841-564M C MMY V 223M 250AC [U.E.B,S] C MMY V 223M 250DC [J] C MMY V 223M 125AC [C.A] |
| X1      | Symbols for  [A]: AAL (U.S.  [B]: BEAB (E.  [C]: CSA (Ca.  [E]: CEE (Eu.  [J]: JPN (Jap | rope) [V]: VDE (W. Germany)  |
| Ĺ       | These r   | eference symbols correspond nponent symbols in the   |

Schematic Diagrams.

The available PC Board Blocks are listed separately.

#### WARNING .

**△** (\*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

#### **AVERTISSEMENT**

**⚠** (\*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

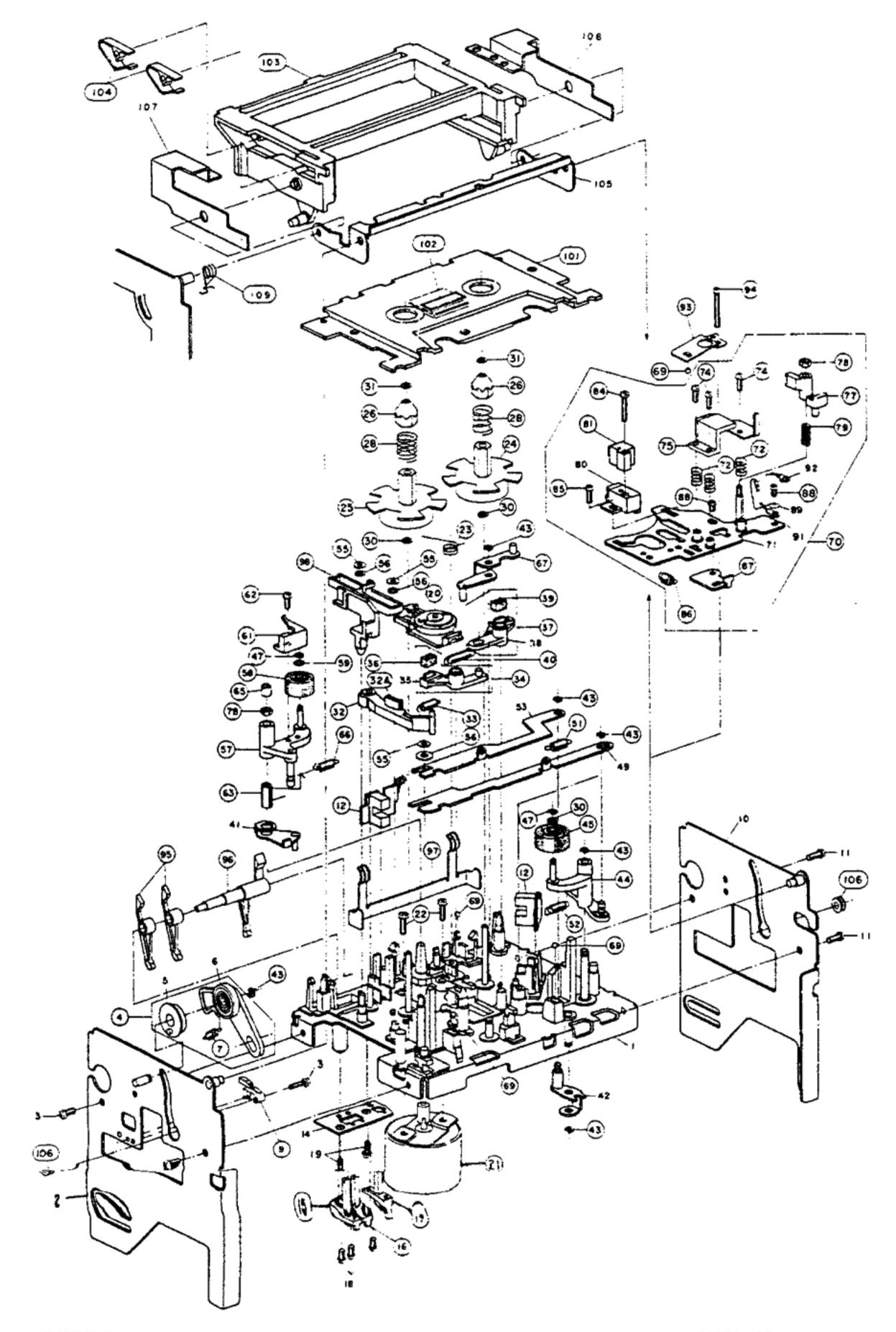
#### 1.RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

| 1 | Ref.No.    | PartNo.                  | Description                                       |
|---|------------|--------------------------|---|
|   | 1          | AX-384837J               | REMOCONRC-G95                                     |
|   | 2          | BB-T2047A020K            | MECHABLKGX-Z7100EV                                |
|   | 3          |                          | HEADBLKGX-Z7100EV                                 |
|   | 4          |                          | LEVERBRAKE(A)BLKGX-F51                            |
|   | 5<br>6     | BL-8336007               | LEVERBRAKE(B)BLKGX-F51 LEVERBRAKECAMPART          |
|   | 7          | BL-B336196               |   |
|   | B          |                          | LEVEREJECTCAMPART                                 |
|   | 9          |                          | MOTORBLM-310C                                     |
|   | 10         | BM-396252J               | MOTOROPERATION(PULLEY)PART                        |
|   | <b>1</b> 1 |                          | REELMOTORBLKGX-95                                 |
|   | 12         | *BT-396317J              | TRANSPOWT2129(B)                                  |
|   | 13         | *BT-396316J              | [B]<br>TRANSPOWT2129(E)                           |
|   | -          |                          | [E]   |
|   | 14         | ED-344244                | DLEDSLF-601CAMBER                                 |
|   |            |                          | [D901]  |
|   | 15         | ED-307572                | DSILICONH 1SS131                                  |
|   | 16<br>17   | ED-624903                | DSILICONH1S2473                                   |
|   | 18         | ED-511907<br>ED-338322   | DSILICON100F1100/1.0A<br>DSILICON100F1100/1.0A    |
|   | 19         | ED-393772J               | DZENERHHZS11B1LT26                                |
|   | 20         | ED-393774J               | DZENERHHZS11B3T26                                 |
|   | 21         | ED-395070J               | DZENERHHZS20-3                                    |
| 1 | 22         | ED-393773J               | DZENERHHZS3A3T26                                  |
|   | 23         | ED-394924J               | DZENERHHZS5C1                                     |
|   | 24         | ED-388358J               | DZENERHHZS5C2                                     |
|   | 25<br>26   | ED-400780J               | DZENERHHZS6B1T26                                  |
|   | 26<br>27   | ED-396365J<br>ED-396063J | DZENERHHZS6C3                                     |
|   | 28         | ED-400779J               | DZENERHHZS7B-1<br>DZENERHHZS9A3T26                |
|   | 29         | ED-395071J               | DZENERHHZS9C2                                     |
|   | 30         | ED-346559                | DZENERHHZ12B2L                                    |
| ; | 31         | ED-305655                | DZENERHHZ4B3                                      |
|   | 32         | ED-346540                | DZENERHHZ9B1L                                     |
|   | 33         | ED-346545                | DZENERHHZ9C2L                                     |
| • | 34         | *EF-358974               | FUSEBETT250V630MA                                 |
| : | 35         | *EF-601942               | [B]<br>FUSESEMKOT250V630MA                        |
|   |            |                          | [E]   |
| ; | 36         | EH-372101                | FILTER08428-5162-04                               |
|   | 37         | Ei-400755J               | HOLE-EHW-101A-04(D)                               |
|   | 38         | E1-373980                | ICBA15218N  |
|   | 39         | El-370012                | ICBA6805A   |
|   | \$0<br>\$1 | EI-384868J<br>EI-359985  | ICBU4030B<br>ICCX20187                            |
|   | 12         | EI-355602                | ICLB1649  |
|   | 43         | EI-337008                | ICLC7800  |
| 4 | 14         | El-377860                | ICM5F7805L  |
|   | 15         | E!-384892J               | ICM50754-106SP                                    |
|   | 16         | El-357498                | ICM51143AL  |
|   | 17<br>10   | El-393324J               | ICM5218AL   |
|   | 18<br>19   | El-362587<br>El-362588   | ICM5238L<br>ICM5238P                              |
|   | 50         | EI-400756J               | ICNJM4558L-B                                      |
|   | 51         | El-389881J               | ICNJM4580D-D                                      |
| 5 | 52         | El-310036                | ICTC4066BP  |
|   | 3          | El-336992                | ICUPC1043C  |
|   | 54         | El-373383                | ICUPC1297CA                                       |
|   | 55         | EI-396490J               | OSCCECST4.00MGW-TF01T05                           |
|   | 56<br>57   | EM-384893J<br>EO-389453J | INDFLBG-551GKDOUBLE<br>COILOSCT2124105.0KHZ       |
|   | 58         | EO-400766J               | COILOSC12124105.0KHZ<br>COILOSC172128(HX)-7200KHZ |
|   | 9          | ER-320528                | RFUSEHERD2FC1/4W22R0G                             |
|   | i0         | ER-400605J               | RFUSEVT05ERD2FCV1/4W15R0G                         |
|   | 31         | ER-401042J               | RFUSEVT05ERD2FCV1/4W33R0G                         |
| 6 | 52         | ES-336990                | SWLEAFBSW-16901-1 NO                              |
|   | :3         | EC 070040                | [SW901]   |
| c | i3         | ES-372912                | SWLEAFSPP82101-2                                  |
| 6 | 14         | *ES-371104               | [SW904]<br>SWPUSHSDDLD101-1                       |
| _ | 55         | ES-396601J               | SWPUSHSPUY192-06-02N                              |
|   |            |                          | [CD/DATDIRECT]                                    |
|   |            |                          |   |

|   | Ref.No. | Part No.   | Description                    |
|---|---------|------------|--------------------------------|
|   | 66      | ES-396600J | SWPUSHSPUY525THROW             |
| İ | 67      | ES-370933  | [DOLBYNR]<br>SWSLIDESSSU01-03N |
|   |         |            | [TIMERSW]                      |
|   | 68      | ES-396610J | SWTACTSOR-122HST05             |
|   | 69      | ET-381683J | [RESET]<br>DETECTORA1QH3021H0  |
|   | 70      | ET-345091  | DETECTORSPI-201-408.C          |
|   |         |            | [PH1]                          |
|   | 71      | ET-363953  | TRDTA114TS                     |
|   | 72      | ET-395078J | TRDTA124GS                     |
|   | 73      | ET-396487J | TRDTA124XLT05                  |
|   | 74      | ET-371075  | TRDTA124XS                     |
|   | 75      | ET-370634  | TRDTA143XS                     |
|   | 76      | ET-354415  | TRDTA144ES                     |
|   | 77      | ET-353897  | TRDTC114ES                     |
| İ | 78      | ET-400795J | TRDTC114GST05                  |
|   | 79      | ET-354365  | TRDTC114YS                     |
| ļ | 80      | ET-395077J | TRDTC115TS                     |
|   | 81      | ET-382952J | TRDTC123ES                     |
|   | 82      | ET-373391  | TRDTC143ZS                     |
|   | 83      | ET-396488J | TRDTC144ELT05                  |
|   | 84      | ET-354414  | TRDTC144ES                     |
|   | 85      | ET-370310  | TRDTC144TS                     |
|   | 86      | ET-354897  | TRFET2SK170BLGRV               |
|   | 87      | ET-354841  | TR2SA1282AF,GF05               |
|   | 88      | ET-364093  | TR2SA1283E,F                   |
|   | 89      | ET-353899  | TR2SA1317S,T,U                 |
|   | 90      | ET-397403J | TR2SA1561R.ST05                |
|   | 91      | ET-389803J | TR2SA933SRS                    |
|   | 92      | ET-337760  | TR2SA984KF                     |
|   | 93      | ET-353067  | TR2SB744P,Q,R                  |
|   | 94      | ET-389251J | TR2SC1740SSF05                 |
| } | 95      | ET-397156J | TR2SC2274KE,F                  |
|   | 96      | ET-365394  | TR2SC3242AE,F,GF05             |
|   | 97      | ET-397160J | TR2SC3330R,S,T,U,V             |
| 1 | 98      | ET-378524J | TR2SC3383S,T,U                 |
|   | 99      | ET-400741J | TR2SC3708T T05                 |
| l | 100     | ET-396486J | TR2SC4038Q,RT05                |
|   | 101     | ET-396072J | TR2SD2159V,W                   |
|   | 102     | ET-349979  | TR2SC794P,Q,R                  |
|   | 103     | HE-391975J | HEADEHAJWB3721A                |
|   | 104     |            | HEADCOMBRP4-10SR RP4-10SR      |
|   | 105     | MB-336026  | BELTCAPSTAN                    |
|   | 106     | MB-336021  | BELTOPERATION                  |
|   | 107     | MP-336204  | PINCHROLLER(B)                 |
|   | 108     | MP-401746J | PINCHROLLER(A-2)-8360          |
|   | 109     | MZ-336006  | CAMWHEEL                       |
|   | 110     | MZ-336005  | GEARPOTENTION                  |
|   | 111     | TC-336605  | WINDIDLERASSY                  |
|   |         |            |                                |

#### MECHA BLOCK



#### 2. MECHA BLOCK

| Ref.No.  | Part No.                | Description                                |
|----------|-------------------------|--|
| 4        | MZ-388144J              | OIL CLUTCH PART                            |
| 7        | ZG-388145J              | SP PULL OIL CLUTCH(2)                      |
| 9        | ES-372912               | SW LEAF SPPB21 01-2<br>[SW904]             |
| 12       | ET-345091               | DETECTOR SPI-201-40 B.C<br>[PH1]           |
| 15       | ES-336990               | SW LEAF BSW-169 01-1 NO<br>[SW901]         |
| 16       | ES-336990               | SW LEAF BSW-169 01-1 NO<br>[SW902]         |
| 17       | ES-336990               | SW LEAF BSW-169 01-1 NO<br>[SW903]         |
| 20       | TC-336605               | WIND IDLER ASSY                            |
| 21       | BM-T2030A120D           | REEL MOTOR BLK GX-95                       |
| 23       | ZG-336140               | SP TORSION IDLER                           |
| 24       | MT-395947J              | REEL TABLE (R) PART                        |
| 25       | MT-395948J              | REEL TABLE (L) PART                        |
| 26       | MT-349681               | REEL RETAINER(B)                           |
| 28<br>30 | ZG-395944J<br>ZW-305546 | SP PUSH BT<br>PW21X040X025PSL              |
| 31       | ZW-343120               | PW17X040X025PSL                            |
| 32       | BL-B336196              | LEVER BT PART                              |
| 32A      | MZ-344983               | FELT BT                                    |
| 33       | ZG-330078               | SP T2-03.2/0.20-09.0 T2-038                |
| 34       | BL-T2030A160A           | LEVER BRAKE (A) BLK GX-F51                 |
| 36       | TC-336146               | BRAKE RUBBER                               |
| 37       | BL-T2030A170A           | LEVER BRAKE (B) BLK GX-F51                 |
| 39       | TC-336146               | BRAKE RUBBER                               |
| 40       | ZG-312946               | SP T1-03.2/0.29-16.0 T1-062                |
| 43       | ZW-270088               | RING E190SUP CMT                           |
| 44       | BL-B336150              | ARM PINCH ROLLER (A) PART                  |
| 45<br>47 | MP-401746J<br>ZW-356657 | PINCH ROLLER(A-2)-8360<br>RING E150SUP CMT |
| 51       | ZG-336175J1             |  |
| 52       | ZG-321534               | SP T2-03.2/0.29-12.5 T2-060                |
| 55       | ZW-329422               | RING CS 0300                               |
| 56       | ZW-306464               | PW31X070X050STL CMT                        |
| 57       | BL-B336202              | ARM PINCH ROLLER (B) PART                  |
| 58       | MP-336204               | PINCH ROLLER (8)                           |
| 59       | ZW-381644               | PW21X040X013PSL                            |
| 61       | HZ-387921J              | GUIDE TAPE (B)(2)                          |
| 62<br>63 | ZS-608095<br>ZG-336206  | PAN20X05STL CMT<br>SP TORSION RETURN       |
| 65       | ZW-356166               | N N  |
| 66       | ZG-336208               | SP PULL PINCH ROLLER (S)                   |
| 67       | BL-B336155              | ARM HEAD SLIDE PART                        |
| 69       | MV-357208               | BALL 200STL                                |
| 70       | BH-T2047A060G           | HEAD BLK GX-Z7100EV                        |
| 72       | ZG-336127               | SP PUSH HEAD                               |
| 74       |                         | PAN20X07STL CMT                            |
| 75       |                         | HEAD COMB RP4-10SR RP4-10SR                |
| 77<br>78 | HZ-387920J<br>ZW-618884 | GUIDE TAPE(2)<br>N20STL CMT 1              |
| 79       | ZG-336130               | SP PUSH GUIDE                              |
| 81       | HE-391975J              | HEAD E HAJWB3721A                          |
| 84       | ZS-306126               | PAN20X12STL CMT                            |
| 85       | Z\$-417161              | PAN23X04STL CMT                            |
| 86       | ZG-341972               | SP PULL HEAD RETURN                        |
| 87       | HZ-336132               | ADJUST PLATE                               |
| 88       | ZS-201407               | PAN23X03STL CMT                            |
| 93       | ZG-336157               | SP PLATE HEAD HOLD                         |
| 94<br>05 | ZS-342002<br>ML-336158  | ST PAN26X16STL CMT                         |
| 95<br>96 | ML-336159J2             | LEVER DETECTION (B) LEVER DETECTOR(A)      |
| 97       | ZG-336160               | SP PLATE CASSETTE HOLDER (A)               |
| 98       | TC-336161J1             | SLIDE EJECT                                |
| 101      | BD-B365352-A            | LID DECORATION (A) PART                    |
| 102      | ED-344244               | D LED SLF-601C AMBER<br>[D901]             |
| 103      | SP-388188J1             | LID CASE(2)                                |
| 104      | ZG-336615               | SP PLATE CASSETTE HOLDER (B)               |
| 106      | SZ-336166               | COLLAR LID                                 |
| 109      | ZG-387804J              | SP TORSION RETURN                          |

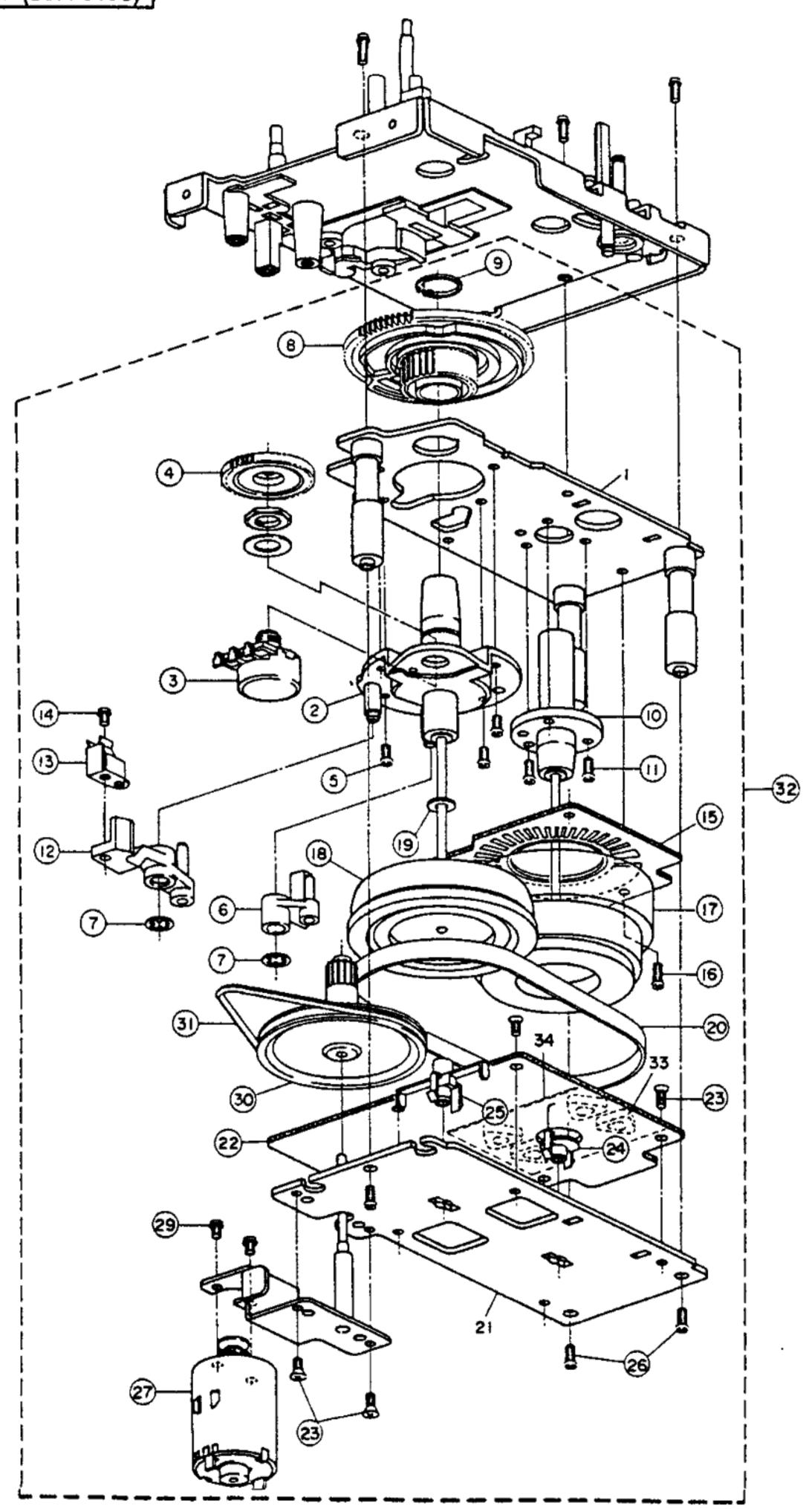
#### NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

#### 3. MOTOR BLOCK (BLM-310C)

| Ref.No. | Part No.      | Description                  |
|---------|---------------|------------------------------|
| 2       | TC-B336004A   | HOLDER CAPSTAN (C-1) PART    |
| 3       | EV-337052     | VR ROTARY 16L10XOR B103      |
| 4       | MZ-336005     | GEAR POTENTION               |
| 5       | ZS-432843     | PAN26X04STL CMT              |
| 6       | BL-8336007    | LEVER BRAKE CAM PART         |
| 7       | ZW-653163     | RING CS 280STL PKR           |
| 8       | MZ-336006     | CAM WHEEL                    |
| 9       | ZW-336604     | RETAINING RING O S930SUP ACP |
| 10      | TC-336002J1   | HOLDER CAPSTAN (B)           |
| 11      | ZS-355818     | ST BR26X04STL CMT            |
| 12      | BL-B336009    | LEVER EJECT CAMPART          |
| 13      | ZG-353158J2   | SP PLATE EJECT               |
| 14      | ZS-477876     | PAN20X03STL CMT              |
| 15      | EA-336012     | PC FG                        |
| 16      | ZS-479474     | PAN26X05STL CMT              |
| 17      | BF-390568J1   | FLYWHEEL (A) PART            |
| 18      | BF-336025     | FLYWHEEL (B)                 |
| 19      | ZW-309295     | WASHER THRUST                |
| 20      | MB-336026     | BELT CAPSTAN                 |
| 22      | BA-M3103A030A | , ,                          |
| 23      | ZS-477887     | CTS26X05STL CMT              |
| 24      | TC-336016     | HOLDER THRUST (A)            |
| 25      | TC-336027     | HOLDER THRUST (B)            |
| 26      | ZS-479474     | PAN26X05STL CMT              |
| 27      | BM-396252J    | MOTOR OPERATION(PULLEY) PART |
| 29      | ZS-432674     | PAN30X03STL CMT              |
| 30      | MR-336019     | PULLEY OPERATE               |
| 31      | MB-336021     | BELT OPERATION               |
| 32      | BM-M3104A010C | MOTOR BLM-310C               |
|         |               |                              |

#### MOTOR BLOCK (BLM-310C)



#### 4. P.C BOARD BLOCK

| Ref.No. | Part No.      | Description                 |
|---------|---------------|-----------------------------|
| 1A      | BA-T2129A020C | PC(#) PREAMP BLK GX-75-2    |
| 1B      | BA-T2129A020B | PC(#) PREAMP BLK GX-95-2    |
| 2       | BA-T2128A030A | PC(#) SYSCON BLK GX-Z7100EV |
| 3       | BA-T2128A040C | PC POWER BLK GX-95-2        |

PC(#) PRE AMP BLK CONSISTS OF FOLLOWING P.C BOARD.

- PRE-AMP P.C BOARD
- OSC P.C BOARD
- HEADPHONE P.C BOARD

PC (#) SYSCON BLK CONSISTS OF FOLLOWING P.C BOARD.

- SYSCON P.C BOARD
- OPERATION P.C BOARD
- TIMER SW P.C BOARD

#### 5. PRE-AMP P.C BOARD

| Ref.No. | Part No.    | Description                    |
|---------|-------------|--------------------------------|
| D551    | ED-624903   | D SILICON H 1S2473             |
| D552    | ED-624903   | D SILICON H 1S2473             |
| D553    | ED-624903   | D SILICON H 1S2473             |
| D554    | ED-624903   | D SILICON H 1S2473             |
| D555    | ED-624903   | D SILICON H 1S2473             |
| D801    | ED-346545   | D ZENER H HZ9C2L               |
| D802    | ED-346545   | D ZENER H HZ9C2L               |
| D811    | ED-346540   | D ZENER H HZ9B1L               |
| D812    | ED-346540   | D ZENER H HZ981L               |
| D841    | ED-305655   | D ZENER H HZ4 B3               |
| FL331   | EH-372101   | FILTER DB 42B-5162-04          |
| IC101   | EI-389881J  | IC NJM4580D-D                  |
| IC102   | EI-393324J  | IC M5218AL                     |
| IC103   | E!-362587   | IC M5238L                      |
| IC201   | EI-359985   | IC CX20187                     |
| IC251   | El-357498   | IC M51143AL                    |
| IC301   | E1-359985   | IC CX20187                     |
| IC451   | E1-362588   | IC M5238P                      |
| IC501   | El-362587   | IC M5238L                      |
| IC551   | El-310036   | IC TC4066BP                    |
| IC601   | E1-384868J  | IC BU4030B                     |
| IC651   | E1-373980   | IC BA15218N                    |
| IC901   | El-393324J  | IC M5218AL                     |
| J501A   | EJ-344370   | PIN J YKC21-0081 P 6P          |
|         |             | [GX-75-2]                      |
| J501B   | EJ-397198J  | PIN.J YKC-21-0464 6P           |
|         |             | [GX-95-2]                      |
| L101    | EO-392605J  | COIL FIX 1 RC875 561J          |
| L102    | EO-392605J  | COIL FIX 1 RC875 561J          |
| L201    | EO-372996   | COIL FIX 1 RC875 223J          |
| L301    | EO-372996   | COIL FIX 1 RC875 223J          |
| L381    | EO-400782J  | COIL FIX 1 EL0606RA T05 222J   |
| L451    | EO-400826J  | COIL FIX 2 21 D4A-682 682G     |
| SW501   | ES-396600J  | SW PUSH SPUY52 5THROW          |
|         |             | [DOLBY NA]                     |
| SW502   | ES-396601J  | SW PUSH SPUY19 2-06-02N        |
|         |             | (CD/DAT DIRECT)                |
| TR101   | ET-354897   | TR FET 2SK170 BL,GR,V          |
| TR331   | ET-389251J  | TR 2SC1740S S F05              |
| TR332   | ET-389251J  | TR 2SC1740S S F05              |
| TR401   | ET-378524J  | TR 2SC3383 S.T.U               |
| TR402   | ET-378524J  | TR 25C3383 S.T.U               |
| TR403   | ET-378524J  | TR 2SC3383 S.T.U               |
| TR451   | ET-378524J  | TR 2SC3383 S.T.U               |
| TR452   | ET-378524J  | TR 2SC3383 S.T.U               |
| TR453   | ET-378524J  | TR 2SC3383 S.T.U               |
| TR501   | ET-378524J  | TR 2SC3383 S,T,U               |
| TR502   | ET-389803J  | TR 2SA933S R,S                 |
| TR551   | ET-396488J  | TR DTC144EL T05                |
| TR552   | ET-396488J  | TR DTC144EL T05                |
| TR553   | ET-397403J  | TR 2SA1561 R.S T05             |
| TR554   | ET-378524J  | TR 2SC3383 S.T.U               |
| TR601   | ET-354414   | TR DTC144ES                    |
| TR651   | ET-378524J  | TR 2SC3383 S,T,U               |
| TR801   | ET-349979   | TR 2\$D794 P.Q.R               |
| TR802   | ET-353067   | TR 2SB744 P.O.R                |
| TR811   | ET-349979   | TR 2S0794 P,Q,R                |
| TR812   | ET-353067   | TR 2SB744 P,Q,R                |
| VR101   | EV-618107   | R S-FIX H RH1021C 0.50W471     |
| VR102   | EV-390869J1 | R S-FIX H T05 RH0638C 0.1W 103 |
| VR401   | EV-389927J  | VR RK16312A0 SPL C1253X2       |
|         |             | [CALIBRATION LEVEL]            |
| VR402   | EV-391833J1 | R S-FIX H T05 RH0638C 0.1W 104 |
| VR501   | EV-396613J  | VR ROTARY RK1612220 A503X2     |
|         |             | {REC LEVEL}                    |
| VR651   | EV-391833J1 | R S-FIX H T05 RH0638C 0.1W 104 |
| VR652   | EV-390869J1 | R S-FIX H T05 RH0638C 0.1W 103 |
| VR653   | EV-396335J  | R S-FIX H T05 RH0638C 0.1W 474 |
| VR721   | EV-400657J  | VR ROTARY RK1631110 B202       |
|         | <b>D</b>    | [CALIBRATION BIAS]             |
| VR901   | EV-373388   | VR ROTARY RK16312A0 A104X2     |
|         |             | [HEADPHONE LEVEL]              |
|         |             |                                |

#### 6. OSC P.C BOARD Ref.No. Part No. Description D781 ED-624903 D SILICON H 1S2473 D SILICON H 1S2473 D782 ED-624903 D831 ED-346559 D ZENER H HZ12B2L D832 D SILICON H 1S2473 ED-624903 FR755 R FUSE H ERD2FC 1/4W 22R0G ER-320528 FR831 R FUSE V T05 ERD2FCV 1/4W33R0G ER-401042J 10701 El-373383 IC UPC1297CA 1751 EO-401048J COIL FIX 2 21D4A-262 262G L752 EO-373247 COIL FIX 1 RC875 272J EO-379951J COIL FIX 1 7132 682J L781 T751 EO-400766J COIL OSC 1 T2128(HX)-7 200KHZ T781 EO-389453J COIL OSC T2124 105.0KHZ TR721 ET-354414 TR DTC144ES TR722 ET-354414 TR DTC144ES TR723 TR DTC144ES ET-354414 TR724 ET-400795J TR DTC114GS T05 TR725 TR DTC114ES ET-353897 TR726 ET-353897 TR DTC114ES ET-353897 TR727 TR DTC114ES TR751 ET-354414 TR DTC144ES ET-400741J TB781 TR 2SC3708 T T05 TR782 ET-400741J TR 25C3706 T T05 TR783 ET-396072J TR 2SD2159 V.W TR831 ET-378524J TR 2SC3383 S,T,U VR701 EV-396335J R S-FIX H T05 RH0638C 0.1W 474 VR722 R S-FIX H T05 RH0638C 0.1W 472 EV-390873J1 VR723 R S-FIX H T05 RH0638C 0.1W 334 EV-397243J VR751 R S-FIX H T05 RH0638C 0.1W 472 EV-390873J1

#### 7. HEADPHONE P.C BOARD

| Ref.No. | Part No.  | Description                                       |
|---------|-----------|---|
| J901    | EJ-369995 | PHONE J 3P HLJ0540-410 GP 6.3<br>[HEADPHONE JACK] |

#### 8. SYSCON P.C BOARD

| Ref.No.      | Part No.               | Description                            |
|--------------|------------------------|--|
| C204         | EC-201645              | C EC V CUT AS1 222M 6.3DC              |
| D101         | ED-624903              | D SILICON H 1S2473                     |
| D102         | ED-624903              | D SILICON H 1S2473                     |
| D103         | ED-624903              | D SILICON H 1S2473                     |
| D104         | ED-624903              | D SILICON H 1S2473                     |
| D105         | ED-624903              | D SILICON H 1S2473                     |
| D106         | ED-624903              | D SILICON H 1S2473                     |
| D107         | ED-624903              | D SILICON H 1S2473                     |
| D108         | ED-624903              | D SILICON H 1S2473                     |
| D109         | ED-307572              | D SILICON H 1SS131                     |
| D110         | ED-624903              | D SILICON H 1S2473                     |
| D111         | ED-624903              | D SILICON H 1S2473                     |
| D112         | ED-624903              | D SILICON H 1S2473                     |
| D113         | ED-307572              | D SILICON H 1SS131                     |
| D114         | ED-307572              | D SILICON H 1SS131                     |
| D115         | ED-307572              | D SILICON H 1SS131                     |
| D116         | ED-307572              | D SILICON H 1SS131                     |
| D117         | ED-307572              | D SILICON H 1SS131                     |
| D118         | ED-624903<br>ED-624903 | D SILICON H 1S2473                     |
| D119<br>D201 | ED-396063J             | D SILICON H 1S2473                     |
| D202         | ED-624903              | D ZENER H HZS7B-1                      |
| D202         | ED-394924J             | D SILICON H 1S2473<br>D ZENER H HZS5C1 |
| D205         | ED-396365J             | D ZENER H HZS6C3                       |
| D206         | ED-624903              | D SILICON H 182473                     |
| D207         | ED-393772J             | D ZENER H HZS11B1L T26                 |
| D206         | ED-393772J             |  |
| •            |                        | D SILICON H 132473                     |
| D301         | ED-388358J             | D ZENER H HZS5C2                       |
| COCC         | ED-3937731             | O ZENER H HZS3A3 T26                   |
| D303         | ED-393774J             | D ZENER H HZS11B3 T26                  |
| D304         | ED-400779J             | D ZENER H HZS9A3 T26                   |
| D305         | ED-624903              | D SILICON H 182473                     |
| D306         | ED-400780J             | D ZENER H HZS681 T26                   |
| D401         | ED-624903              | D SILICON H 182473                     |
|              |                        |  |

| Ref.No.        | Part No.                | Description                    |
|----------------|-------------------------|--------------------------------|
| D402           | ED-624903               | D SILICON - 1S2473             |
| D403           | ED-624903               | D SILICON - 1S2473             |
| FR209          | ER-400605J              | R FUSE V TOS ERD2FCV 1/4W15R0G |
| 181            | EH-382929J              | COMP R RGLE14T 223J            |
| IC101          | EI-337008               | IC LC780C                      |
| IC102          | EI-384892J              | IC M50754-106SP                |
| IC103          | Ei-384868J              | IC BU4030€                     |
| IC201          | EI-377860               | IC M5F78C5L                    |
| IC301          | EI-355602               | IC LB1649                      |
| IC302          | E1-373980               | IC BA15218N                    |
| IC303          | El-373980               | IC BA15218N                    |
| IC501          | El-336992               | IC UPC1043C                    |
| TR101          | ET-371075               | TR DTA124XS                    |
| TR102          | ET-371075               | TR DTA124XS                    |
| TR103          | ET-371075               | TR DTA124XS                    |
| TR104          | ET-395077J              | TR DTC1157S                    |
| TR105          | ET-395077J              | TR DTC115TS                    |
| TR106          | ET-395077J              | TR DTC115TS                    |
| TR109          | ET-395078J              | TR DTA124GS                    |
| TR110          | ET-371075               | TR DTA124XS                    |
| TR111          | ET-371075               | TR DTA124XS                    |
| TR112          | ET-371075               | TR DTA124XS                    |
| TR113          | ET-371075               | TR DTA124XS                    |
| TR114          | ET-354414               | TR DTC144ES                    |
| TR115          | ET-354414               | TR DTC144ES                    |
| TR116          | ET-382952J              | TR DTC123ES                    |
| TR117          | ET-371075               | TR DTA124XS                    |
| TR118          | ET-370310               | TR DTC144TS                    |
| TR201          | ET-397160J              | TR 29C3330 R.S.T.U.V           |
| TR202          | ET-363953               | TR DTA114TS                    |
| TR203          | ET-363953               | TR DTA114TS                    |
| TR204          | ET-354414               | TR DTC144ES                    |
| TR207          | ET-365394               | TR 2SC3242A E.F.G F05          |
| TR208          | ET-354841               | TR 2SA1282A F.G F05            |
| TR301          | ET-354414               | TR DTC144ES                    |
| TR302          | ET-373391               | TR DTC143ZS                    |
| TR303          | ET-354414               | TR DTC144ES                    |
| TR304          | ET-354414               | TR DTC144ES                    |
| TR401          | ET-354365               | TR DTC114YS                    |
| TR402          | ET-354365               | TR OTC114YS                    |
| TR403          | ET-354365               | TR DTC114YS                    |
| TR404          | ET-354365               | TR DTC114YS                    |
| TR405          | ET-354365               | TR DTC114YS                    |
| TR406          |                         |                                |
| TR501          | ET-354415<br>ET-397160J | TR DTA144ES                    |
|                |                         | TR 2SC3330 R.S.T.U,V           |
| TR502<br>VR501 | ET-353897               | TR DTC114ES                    |
|                | EV-330531               | A S-FIX H TM8KV2-1S 0.50W503   |
| X101           | El-396490J              | OSC CE CST4.00MGW-TF01 T05     |

#### 9. OPERATION P.C BOARD

| Ref.No. | Part No.   | Description                          |
|---------|------------|--------------------------------------|
| D601    | ED-624903  | D SILICON H 1S2473                   |
| D602    | ED-624903  | D SILICON H 1S2473                   |
| D603    | ED-624903  | D SILICON H 1S2473                   |
| D605    | ED-624903  | D SILICON H 1S2473                   |
| D607    | ED-624903  | D SILICON H 1S2473                   |
| 1B2     | EH-382935J | COMP R RGLD6X473J                    |
| IB3     | EH-382931J | COMP R RGLD15T 473J                  |
| 1B4     | EH-382932J | COMP R RGLD9T 473J                   |
| IC601   | El-370012  | 1C BA6805A                           |
| IN601   | EM-384893J | IND FL BG-551GK DOUBLE               |
| RM601   | ET-381683J | DETECTOR A1QH3021H0                  |
| TR602   | ET-397403J | TR 2SA1561 R.S T05                   |
| TR603   | ET-396487J | TR DTA124XL TO5                      |
| TR604   | ET-354414  | TR DTC144ES                          |
| TR605   | ET-353899  | TR 2SA1317 S.T.U                     |
| TR606   | ET-353897  | TR DTC114ES                          |
| TR607   | ET-396486J | TR 2SC4038 Q.R T05                   |
| TR608   | ET-396487J | TR DTA124XL T05                      |
| TR609   | ET-396487J | TR DTA124XL TO5                      |
| TR610   | ET-370634  | TR DTA143XS                          |
| TR611   | ET-370634  | TR DTA143XS                          |
| TR612   | ET-354415  | TR DTA144ES                          |
| TR613   | ET-354415  | TR DTA144ES                          |
| TR614   | ET-354415  | TR DTA144ES                          |
| TR615   | ET-354415  | TR DTA144ES                          |
| TS601   | ES-396610J | SW TACT SOR-122HS TOS                |
|         |            | [RESET]                              |
| TS602   | ES-396610J | SW TACT SOR-122HS T05<br>[DISPLAY]   |
| TS603   | ES-396610J | SW TACT SOR-122HS T05                |
| TS604   | ES-396610J | SW TACT SOR-122HS T05                |
| TOCOL   | EC 0000404 | [REC CANCEL]                         |
| TS605   | ES-396610J | SW TACT SOR-122HS T05<br>[IPSS]      |
| TS606   | ES-396610J | SW TACT SOR-122HS T05<br>[REC]       |
| TS607   | ES-396610J | SW TACT SOR-122HS T05                |
| TS608   | ES-396610J | [REW]<br>SW TACT SOR-122HS T05       |
| TS609   | ES-396610J | [STOP]<br>SW TACT SOR-122HS T05      |
| TS610   | ES-396610J | [MEMORY]<br>SW TACT SOR-122HS T05    |
|         |            | [A-B SET]                            |
| TS611   | ES-396610J | SW TACT SOR-122HS T05<br>[PLAY]      |
| TS612   | ES-396610J | SW TACT SOR-122HS T05                |
| TS613   | ES-396610J | SW TACT SOR-122HS T05<br>[AUTO MUTE] |
|         |            |                                      |

#### 10. TIMER SW P.C BOARD

| Ref.No. | Part No.  | Description                        |
|---------|-----------|------------------------------------|
| SW701   | ES-370933 | SW SLIDE SSSU 01-03N<br>[TIMER SW] |

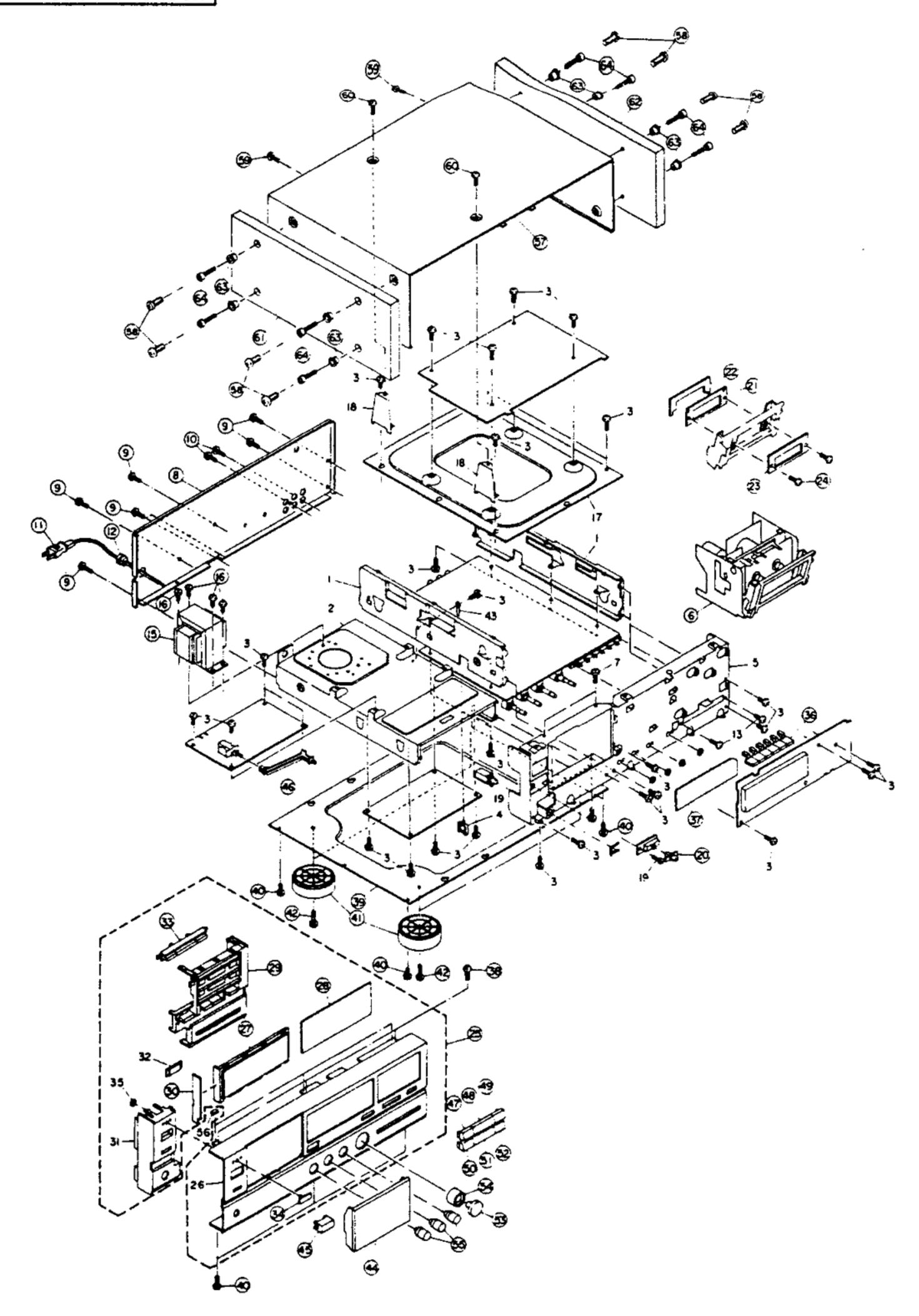
#### 11. POWER P.C BOARD

| Ref.No.        | Part No.   | Description                 |
|----------------|------------|-----------------------------|
| C1             | EC-324662  | C EC V CUT AS1 222M 25.0DC  |
| C2             | EC-324662  | C EC V CUT AS1 222M 25.0DC  |
| C3             | EC-365619  | C EC V CUT AS1 102M 25.0DC  |
| C5             | EC-365619  | C EC V CUT AS1 102M 25.0DC  |
| C6             | EC-365619  | C EC V CUT AS1 102M 25.0DC  |
| C8             | EC-365619  | C EC V CUT AS1 102M 25.0DC  |
| C9             | EC-365619  | C EC V CUT A\$1 102M 25.0DC |
| C10            | EC-322804  | C EC V CUT AS1 472M 16.0DC  |
| C15            | EC-338411  | C CE V DE7 FZ 103P 400AC    |
| D1             | ED-338322  | D SILICON 10DF1 100/1.0A    |
| D2             | ED-338322  | D SILICON 10DF1 100/1.0A    |
| D3             | ED-338322  | D SILICON 10DF1 100/1.0A    |
| D4             | ED-338322  | D SILICON 10DF1 100/1.0A    |
| D6             | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D7             | ED-511907  | D SILICON 1N4002 100/1,0A   |
| 8D             | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D <del>9</del> | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D10            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D11            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D12            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D13            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D14            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D15            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D16            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D17            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D18            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| D19            | ED-395070J | D ZENER H HZS20-3           |
| D20            | ED-395071J | D ZENER H HZS9C2            |
| D21            | ED-395071J | D ZENER H HZS9C2            |
| D22            | ED-511907  | D SILICON 1N4002 100/1.0A   |
| F1A            | *EF-601942 | FUSE SEMKO T 250V 630MA     |
|                |            | [E]                         |
| F1B            | *EF-358974 | FUSE BET T 250V 630MA       |
| _              |            | [B]                         |
| F2A            | *EF-601942 | FUSE SEMKO T 250V 630MA     |
|                |            | (E)                         |
| F2B            | *EF-358974 | FUSE BET T 250V 630MA       |
|                |            | (B)                         |
| FR1            | ER-320528  | A FUSE H ERD2FC 1/4W 22R0G  |
| FR2            | ER-320528  | R FUSE H ERD2FC 1/4W 22R0G  |
| SW1            | *ES-371104 | SW PUSH SDDLD1 01-1         |
| TR1            | ET-364093  | TR 2SA1283 E.F              |
| TR2            | ET-365394  | TR 2SC3242A E.F.G F05       |
| TR3            | ET-354841  | TR 2SA1282A F.G F05         |
|                |            |                             |

#### 12. MOTOR P.C BOARD

| Ref.No.         | Part No.   | Description                |  |  |
|-----------------|------------|----------------------------|--|--|
| IC1             | EI-400756J | IC NJM4558L-B              |  |  |
| <del>IC</del> 3 | EI-400755J | HOLE-E HW-101A-04(D)       |  |  |
| IC4             | El-400755J | HOLE-E HW-101A-04(D)       |  |  |
| TR1             | ET-397156J | TR 2SC2274K E.F            |  |  |
| TR2             | ET-337760  | TR 2SA984K F               |  |  |
| TR3             | ET-397156J | TR 2SC2274K E.F            |  |  |
| TR4             | ET-337760  | TR 2SA984K F               |  |  |
| VR1             | EV-464253  | R S-FIX V V8K1-1 0.10W 202 |  |  |
| VR2             | EV-464253  | R S-FIX V V8K1-1 0.10W 202 |  |  |

#### FINAL ASSEMBLY BLOCK



#### 13. FINAL ASSEMBLY

| Ref.No.  | Part No.       | Description                   |
|----------|----------------|-------------------------------|
| 6        | BB-T2047A020K  | MECHA BLK GX-Z7100EV          |
| 8A       | SP-396307J1    | PANEL REAR GX-75-2B(E)        |
| 8B       | SP-396305J1    | PANEL REAR GX-75-2B(E)        |
| 8C       | SP-396306J1    | PANEL REAR GX-95-2B(B)        |
| 9        | ZS-376523      | ST BID30X06STL BNI EARTH LOCK |
| 10       | ZS-350934      |                               |
|          |                | PT BR30X08STL BNI             |
| 11A      | *EW-336923     | AC CORD 2C KP-419C.LTCE-2F EV |
| 445      |                | [E]                           |
| 11B      | *EW-346249     | AC CORD 2 CORES LCFL2X0.75 B  |
|          |                | (B)                           |
| 12       | *EZ-631945     | STRAIN RELIEF SR-4N-4         |
| 15A      | *BT-396316J    | TRANS POW T2129(E)            |
|          |                | {E}                           |
| 15B      | *BT-396317J    | TRANS POW T2129(B)            |
|          |                | [B]                           |
| 16       | ZS-301576      | ST PAN40X10STL CMT            |
| 20       | SK-358066B     | KNOB SLIDE-BLACK              |
| 21       | MZ-385721J2    | PLATE DAMP                    |
| 22       | SZ-392824J     | SHEET DAMP NEW                |
| 23       | SE-395611J     | PLATE STAB!                   |
| 24       | ZS-387752J     | 6RB26X030SCM BZN              |
| 25A      | BD-T2107A050L  |                               |
| 25B      | <del>-</del>   | PANEL FRONT BLK GX-95-2B      |
| 27       | SE-382435J     | WINDOW METER                  |
| 28       | SE-384090J     | FILTER FLD                    |
| 29       |                |                               |
|          | SK-384075J     | KNOB OPERATE 8                |
| 33       | SK-384079J1    | KNOB B                        |
| 34       | SM-365756C     | NAME PLATE AKAI(2)            |
| 36       | SK-384077J     | KNOB PUSH B                   |
| 37       | SE-384091J     | MASK VR                       |
| 38       | ZS-358936      | ST BID30X06STL CMT            |
| 39A      | SP-384060J     | CHASSIS BOTTOM                |
|          |                | [GX-75-2]                     |
| 39B      | SP-384386J1    | CHASSIS BOTTOM(2)             |
|          |                | [GX-95-2]                     |
| 40       | ZS-305827      | ST BID30X06STL BNI            |
| 41A      | SA-384105J     | FOOT ROUND SHAPED(N)          |
|          |                | [GX-75-2]                     |
| 41B      | SA-384387J     | FOOT ROUND SHAPED(N)(2)       |
|          |                | [GX-95-2]                     |
| 42       | ZS-389961J     | BT BID30X14STL COP CLEAR CUP  |
| 44A      | BD-T2124A060C  |                               |
|          | 55 1212410000  | [GX-75-2]                     |
| 44B      | BD-T2124A060E  | LID PANEL BLK GX-95-2B        |
|          | 50 12124110002 | [GX-95-2]                     |
| 45       | SK-373236B     | KNOB POWER-B                  |
| 46       | MZ-384059J     |                               |
| 47       | SK-373337C     | JOINT POW                     |
|          |                | KNOB OPERATION(B) REW-BLACK   |
| 48<br>49 | SK-373336C     | KNOB OPERATION(A) PLAY-BLACK  |
|          | SK-373337A     | KNOB OPERATION(B) FF-BLACK    |
| 50       | SK-373337E     | KNOB OPERATION(B) PAUSE-BLACK |
| 51       | SK-373336A     | KNOB OPERATION(A) STOP-BLACK  |
| 52       | SK-373337G     | KNOB OPERATION(B) MUTE B      |
| 53       | SK-384083J     | KNOB REC(L)-B PART            |
| 54       | SK-384088J     | KNOB REC(R) B PART            |
| 55       | SK-381051J     | KNOB VR-B(2) PART             |
| 57       | SP-384100J1    | COVER UPPER B                 |
| 58       | ZS-341960      | ST BID40X06STL BNI            |
|          |                | [GX-75-2]                     |
| 59       | ZS-376523      | ST BID30X06STL BNI EARTH LOCK |
| 60       | ZS-381482J     | SCREW TOP COVER(3) B OM       |
| 61       | SP-384102J     | SIDEBOARD(L)                  |
|          | _              | [GX-95-2]                     |
| 62       | SP-384101J     | SIDEBOARD(R)                  |
|          |                | [GX-95-2]                     |
| 63       | ZW-376292      | WASHER SIDE BOARD             |
|          |                | [GX-95-2]                     |
| 64       | ZS-376293      | SCREW SIDE BOARD              |
| ÷ .      |                | [GX-95-2]                     |
|          |                | [                             |

#### NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

#### 14. ACCESSARY

| Ref.No. | Part No.                 | Description                                 |
|---------|--------------------------|---|
| 1 2     | EW-383168J<br>AX-384837J | CORD TC-C-05S P-P 2P 2PCS<br>REMOCON RC-G95 |

#### 15. REMOTE CONTROL RC-G95

| Ref.No. | Part No.   | Description            |
|---------|------------|------------------------|
| 1       | SC-726112J | CASE BATTERY GX-Z9100R |

#### **MEMO**

----- PARTS LIST ---

## ABBREVIATIONS (CASSETTE)

| ABBREVIATION  | EXPLANATION                         | ABBREVIATION | EXPLANATION                   |
|---------------|-------------------------------------|--------------|-------------------------------|
| AC            | Alternating Current                 | MIN          | MINute                        |
| A/D           | Analog/Digital                      | MML          | Maximum Modulation Level      |
| AF            | Auto Fader                          | MOL          | Maximum Output Level          |
| AMP           | AMPlifier                           | MPX          | Multi PleX                    |
| AR            | Anti Recording                      | NC           | Not Connected (No Connection) |
| AT BIAS       | Auto Turning BIAS                   | NFB          | Negative Feed Back            |
| ATT           | ATTenuator                          | NORM         | NORMal                        |
| BAL           | BALance                             | NR           | Noise Reduction               |
| BEF           | Band Elimination Filter             | osc          | OSCillator (OSCillation)      |
| BSS           | Blank Search System                 | P            | Puise                         |
| CAP M         | CAPstan Motor                       | PB           | Play Back                     |
| СН            | CHannel                             | QMSS         | Quick Memory Search System    |
| СОМР          | COMParator                          | OR           | Quick Reverse                 |
| CONT          | CONTinuance                         | R CH         | Right CHannel                 |
| CRLP          | Computer Recording Level Processing | REC          | RECord (RECording)            |
| cs            | Chip Select                         | REV '        | REVerse                       |
| D/A           | Digital/Analog                      | ROT          | ROTation                      |
| DC            | Direct Current                      | REW          | REWind                        |
| DET           | DETector                            | SEC          | SECond                        |
| DISCRI        | DISCRIminator                       | SELE         | SELEctor                      |
| DUB           | DUBbing                             | SENS         | SENSitivity                   |
| EO            | EQualizer                           | SEPP         | Single Ended Push Pull        |
| FF (or F.FWD) | Fast Foward                         | SIG          | SIGnal                        |
| FLD           | FLuoresent Display                  | SPECT        | SPECTrum                      |
| FREQ          | FREQuency                           | STD          | STanDard                      |
| FWD           | ForWarD                             | sw           | SWitch                        |
| GND           | GrouND                              | SYSCON       | SYStem CONtrol                |
| н             | High                                | TP           | Test Point                    |
| HPF           | High Pass Filter                    | TRIG         | TRIGa                         |
| IND           | INDicator                           | VCA          | Voltage Control Attenuator    |
| IPLS          | Instant Program Location System     | VOL          | VOLume                        |
| L             | Low                                 | VOLT         | VOLtage                       |
| L CH          | Left CHannel                        | VR           | Variable Resistor             |
| LED           | Light Emitining Diode               | XTAL         | cysTAL                        |
| мемо          | MEMOry                              | X1           | Normal speed                  |
| місом         | MicroCOMputer                       | X2           | Dubble speed                  |

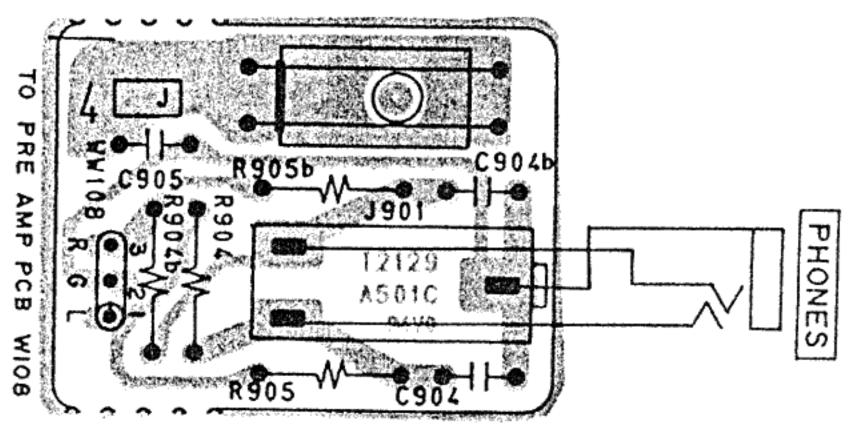
# AKAI

# MODEL GX-75MKII MODEL GX-95MKII

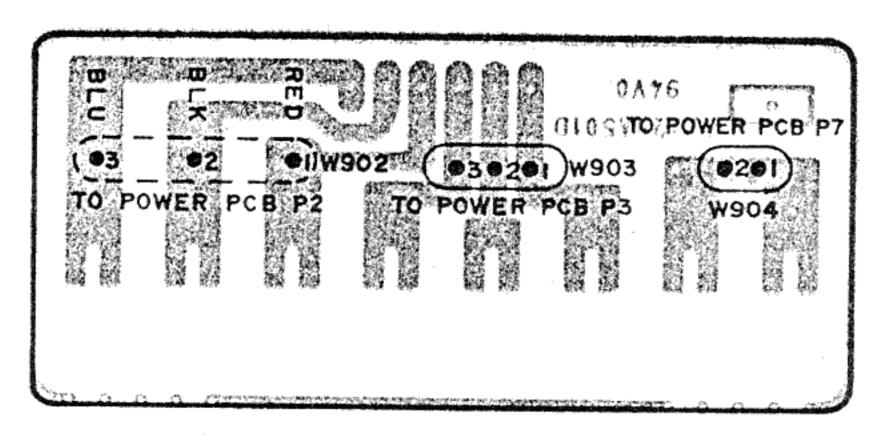
# SCHEMATIC DIAGRAMS AND PC BOARDS

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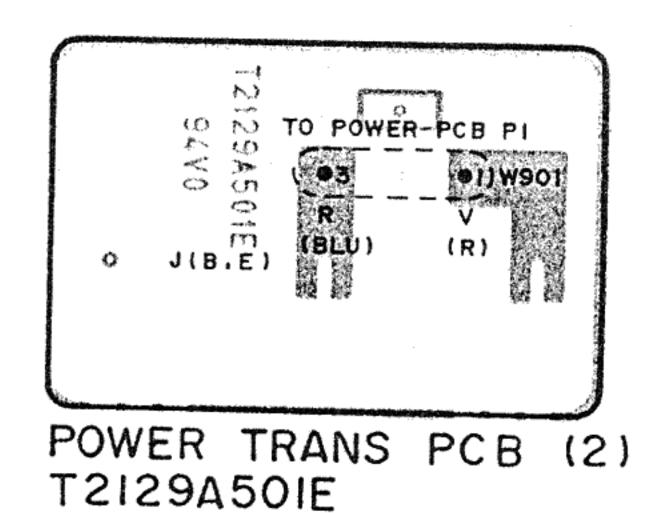
| I.  | SCHEMATIC DIAG  | RAMS AND | PC BOARDS                               |   |   |    |   |
|-----|-----------------|----------|---|---|---|----|---|
|     | 1. CONNECTION   | DIAGRAM  |   | • | •••••                                   |    | 5 |
|     | 2. SYSTEM CONT  | ROL      |   | ••••••                                  | •••••                                   | (  | ô |
|     | 3. PRE AMP, OSC | ;        |   |   |   | 8  | 3 |
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| II. | BLOCK DIAGRAM   |          | *************************************** | *************************************** | *************************************** | 10 | ) |



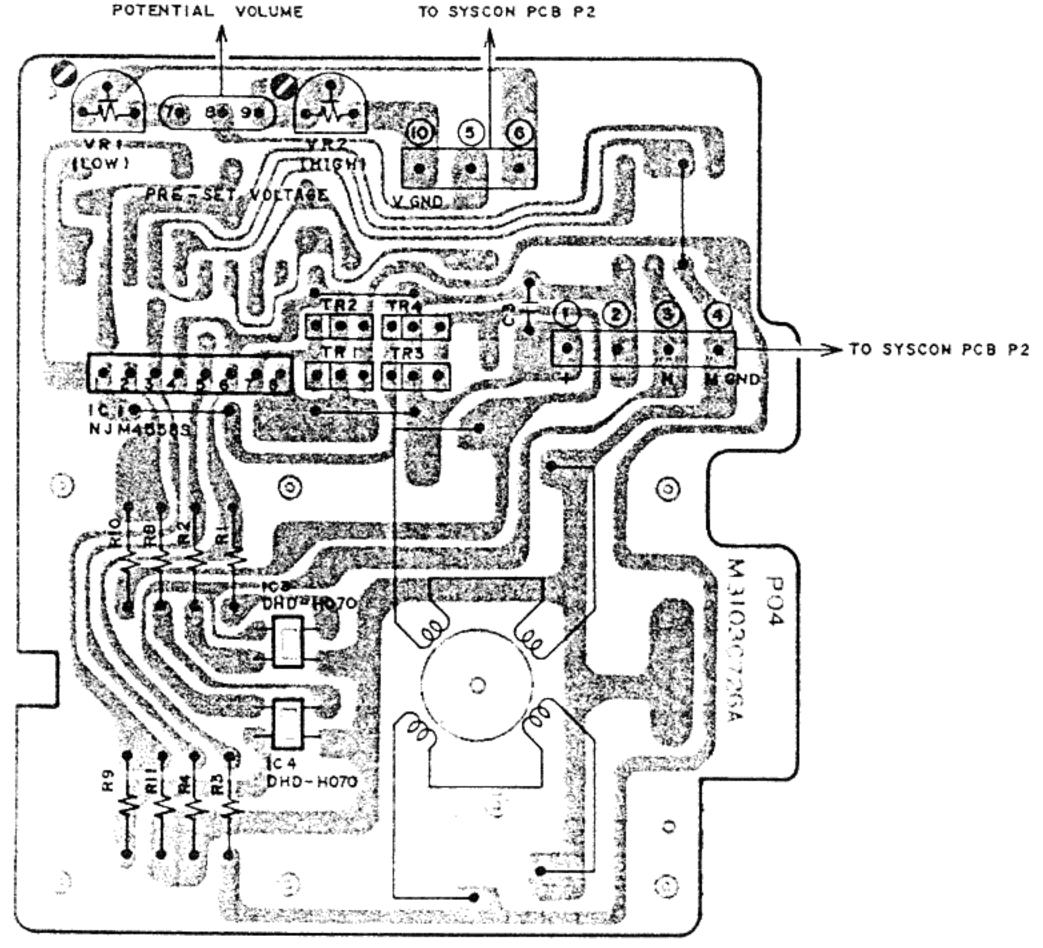
PHONE PCB T2129A501C



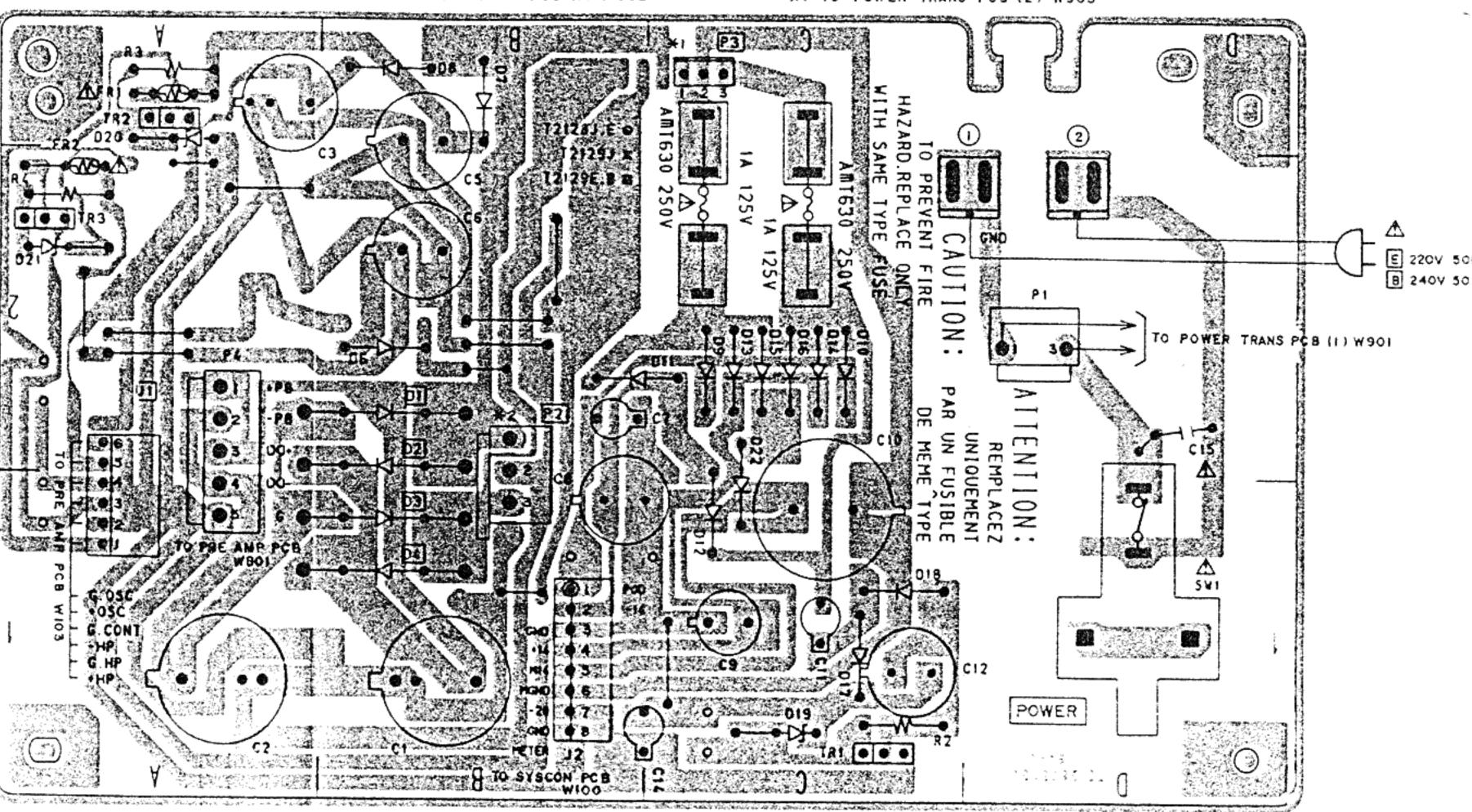
POWER TRANS PCB(I) T2I29A50ID



2



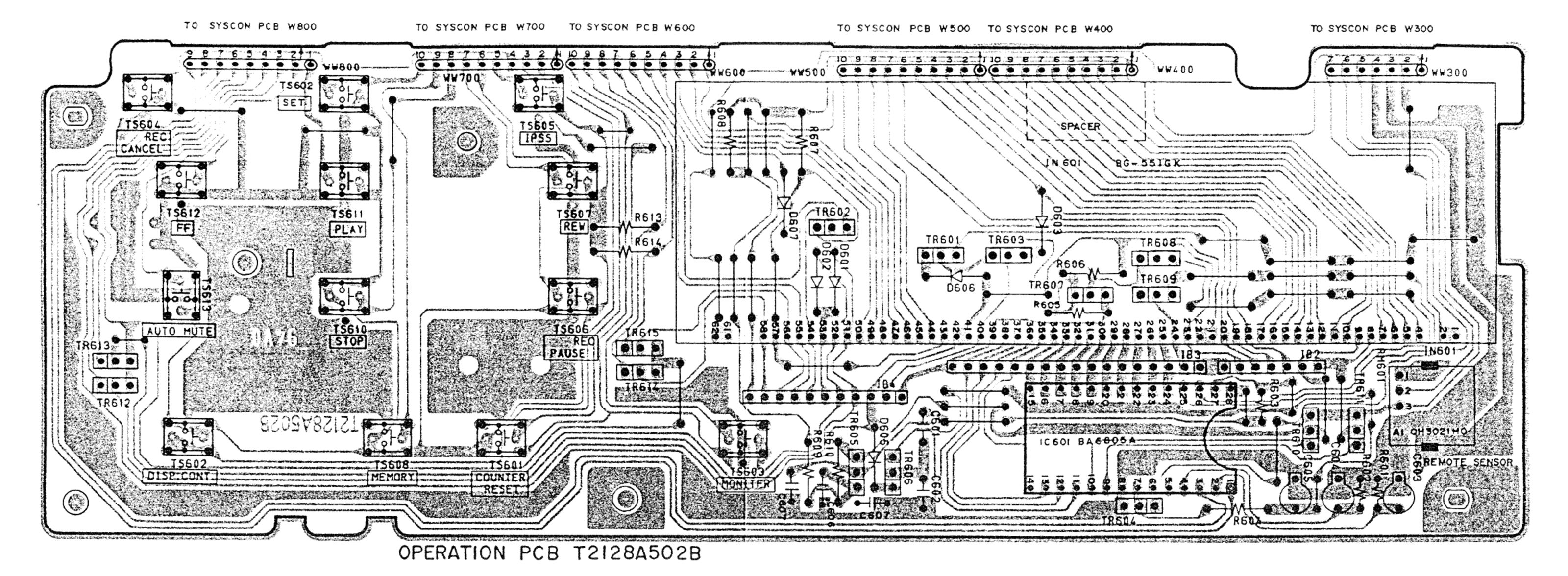
MOTOR PCB M3103C726A

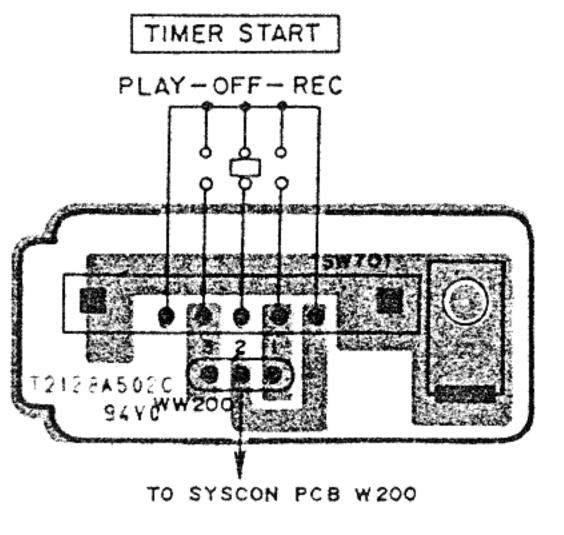


POWER SUPPLY PCB T2128C5030

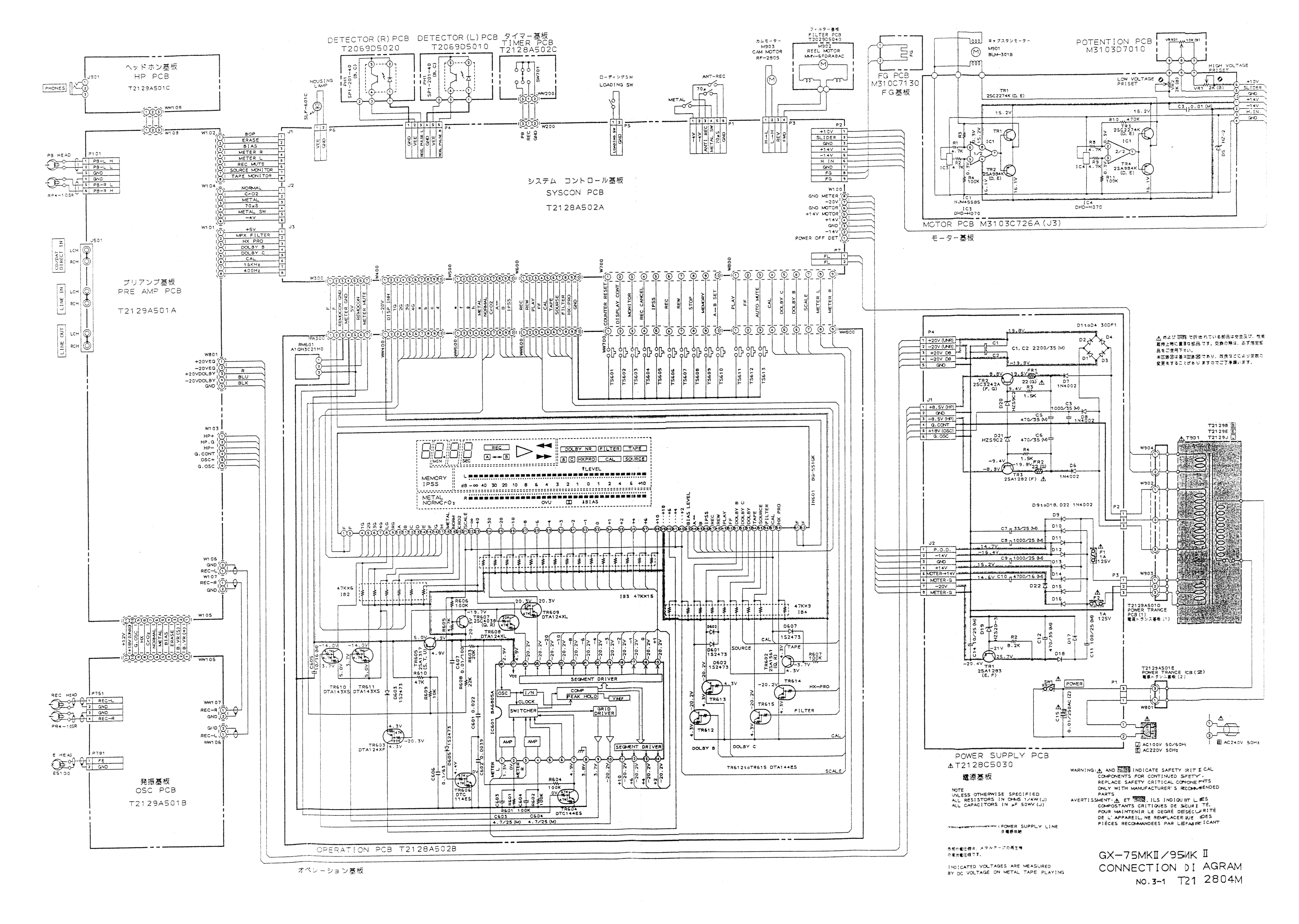
WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

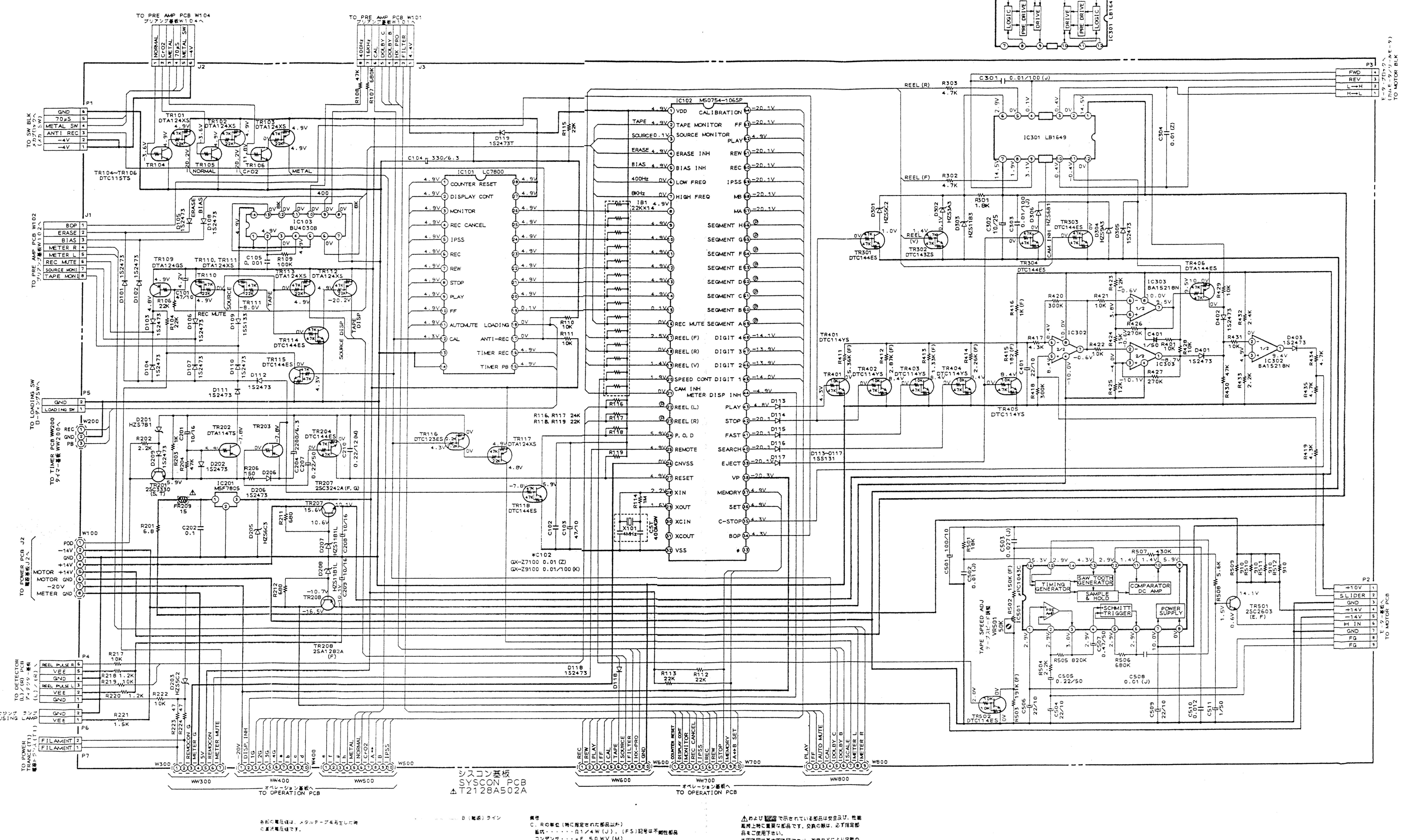
AVERTISSEMENT: ΔIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL.
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT





TIMER PCB T2128A502C





INDICATED VOLTAGES ARE MEASURED BY DC VOLTAGE ON METAL TAPE PLAYING.

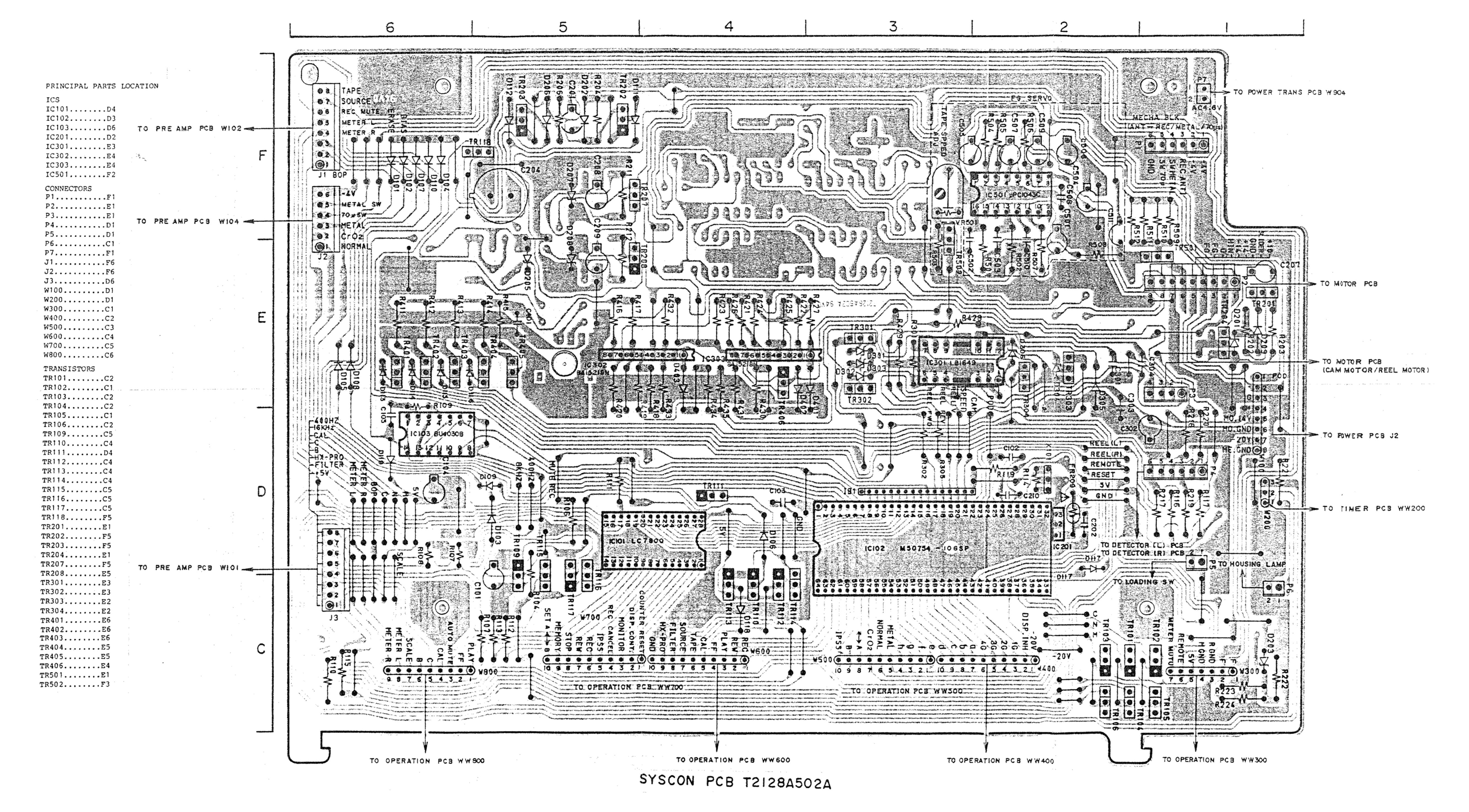
コンデンサ・・・μF 50WV(M) 各種圧は、GND間のDC電圧をデジタルボルトメーターにて 拠定した値です。

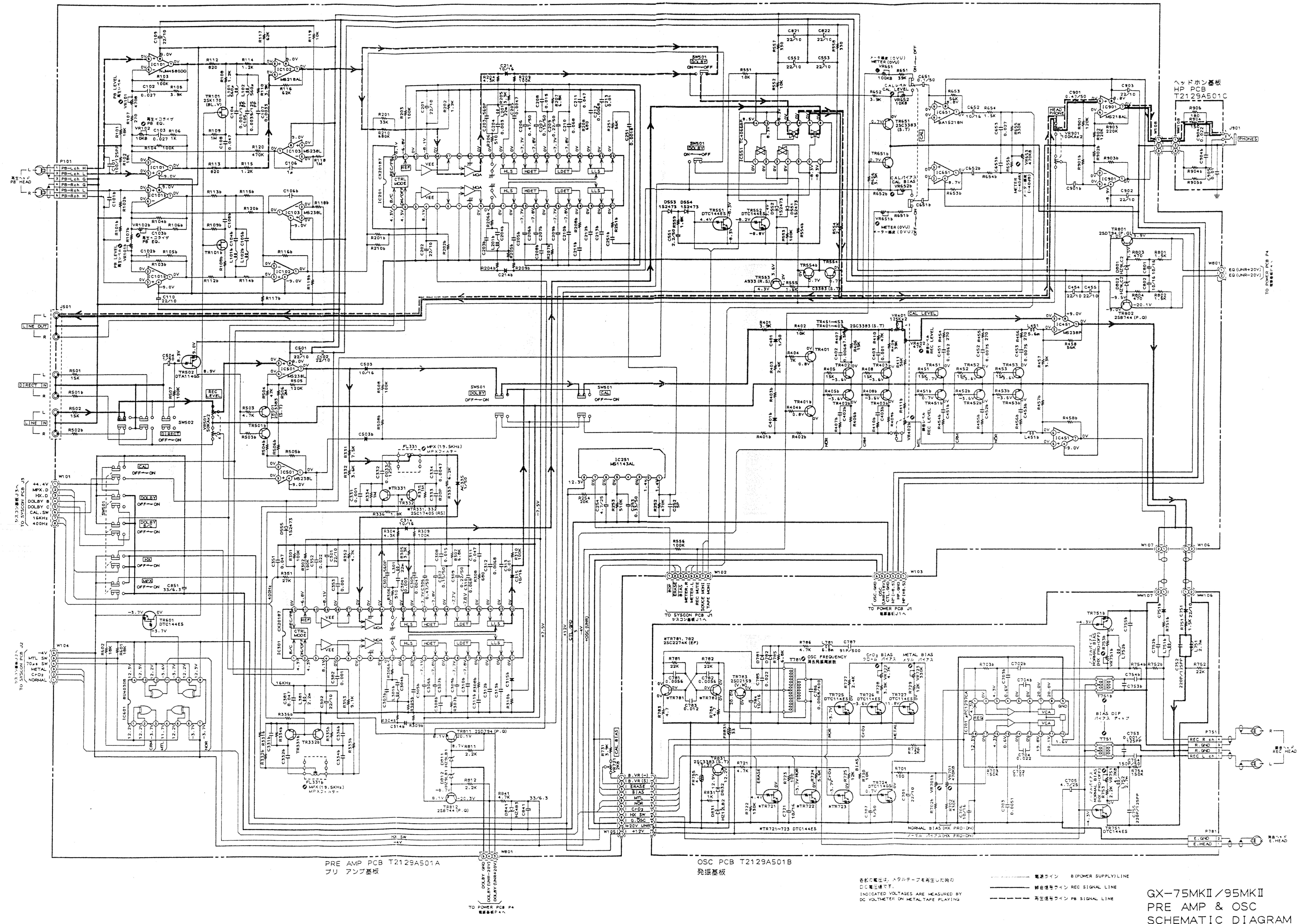
UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN OHMS 1/4W(J) ALL CAPACITORS IN #F 50 WV (M)

本回路図は基本回路図であり、改良などにより定数の 変更をすることがありますのでご了承願います。

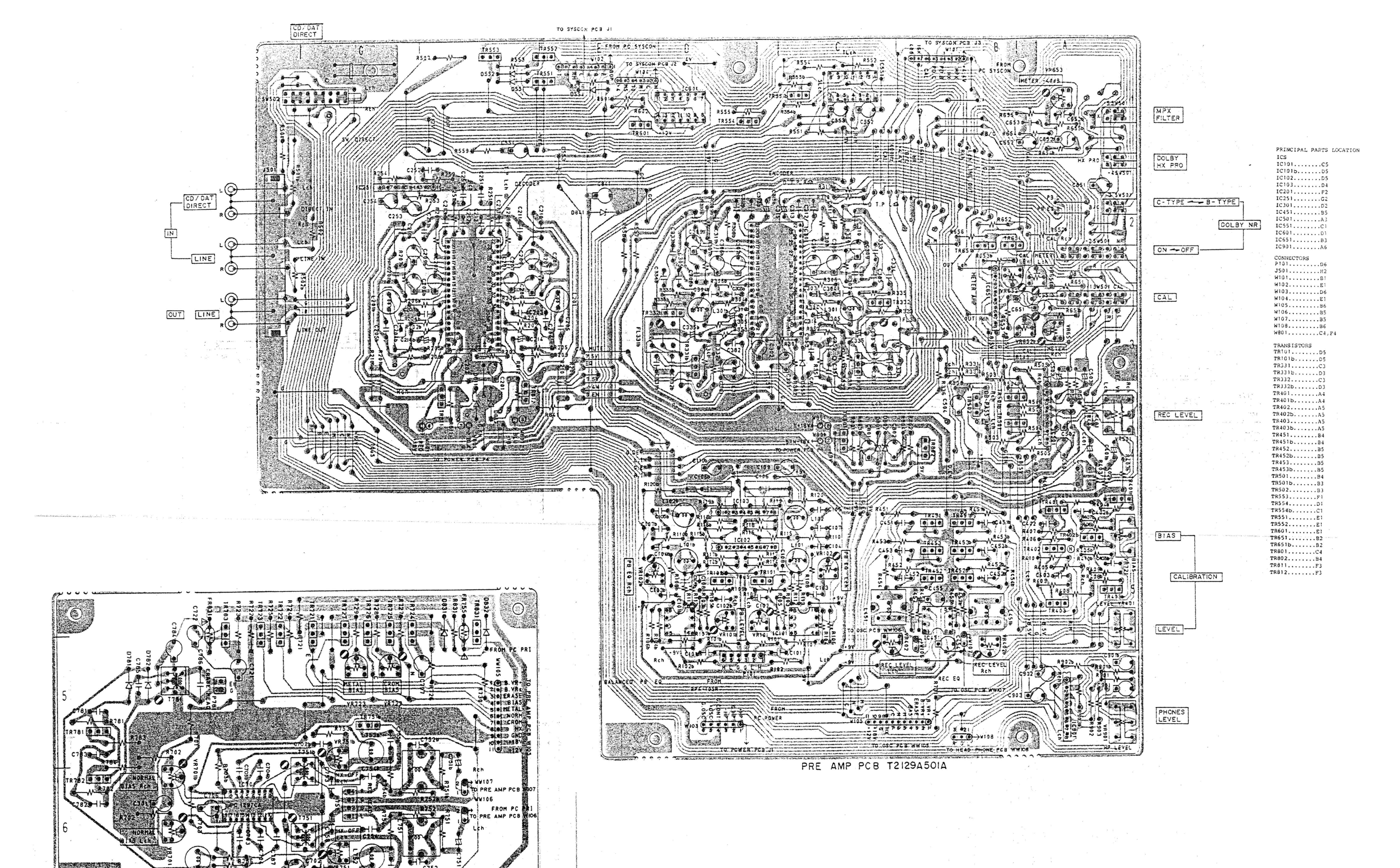
WARNING: AAND ME INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: A ET EN , ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT





SCHEMATIC DIAGRAM NO.3-3 T212806M



OSC PCB T2129A501B

